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RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) FACILITY ASSESSMENT SAMPLING VISIT REPORT

GROUPS I and II

GROUP I SOLID WASTE MANAGEMENT UNITS 26, 49, 50, AND 56

GROUP II SOLID WASTE MANAGEMENT UNITS 19, 28, AND 48

U.S. NAVAL STATION MAYPORT, FLORIDA

Unit Identification Code No. N60201

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December 1995



This document Resource Conservation and Recovery Act Facility Assessment Sampling Visit. Group I and II SWMUs, U.S. Naval Station, Mayport Florida has been prepared under the direction of a Florida Registered Professional Geologist. The work and professional opinions rendered in this report were conducted or developed in accordance with commonly accepted procedures consistent with applicable standards of practice. If conditions are determined to exist that differ from those described, the undersigned geologist should be notified to evaluate the effects of any additional information on the assessment and recommendations in this document. This document was prepared for U.S. Naval Station, Mayport, Florida, and should not be construed to apply to any other site.

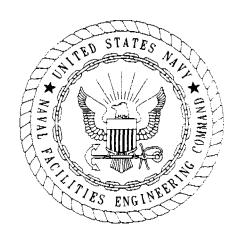
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MA



CERTIFICATION OF TECHNICAL DATA CONFORMITY (MAY 1987)

The Contractor, ABB Environmental Services, Inc., hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0317/028 are complete and accurate and comply with all requirements of this contract.

DATE: July 25, 1995

NAME AND TITLE OF CERTIFYING OFFICIAL: Margaret E. Layne, P.E. Task Order Manager

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Project Technical Lead



FOREWORD

To meet its mission objectives, the U.S. Navy performs a variety of operations, some requiring the use, handling, storage, or disposal of hazardous materials. Through accidental spills and leaks and conventional methods of past disposal, hazardous materials may have entered the environment in ways unacceptable by today's standards. With growing knowledge of the long-term effects of hazardous materials on the environment, the Department of Defense (DOD) initiated various programs to investigate and remediate conditions related to suspected past releases of hazardous materials at their facilities.

One of these programs is the Installation Restoration (IR) program. This program complies with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended by the Superfund Amendments and Reauthorization Act (SARA). The acts, passed by Congress in 1980 and 1986, respectively, established the means to assess and cleanup hazardous waste sites for both private-sector and Federal facilities. These acts are the basis for what is commonly known as the Superfund Program.

Originally, the Navy's part of this program was called the Navy Assessment and Control of Installation Pollutants (NACIP) program. Early reports reflect the NACIP process and terminology. The Navy eventually adapted the program structure and terminology of the standard IR program.

The IR program is conducted in several stages as follows.

- The Preliminary Assessment (PA) identifies potential sites through record searches and interviews.
- A Site Inspection (SI) then confirms which areas contain contamination, constituting actual "sites". (Together, the PA and SI steps were called the Initial Assessment Study (IAS) under the NACIP program.)
- Next, the Remedial Investigation and the Feasibility Study (RI/FS) together determine the type and extent of contamination, establish criteria for cleanup, and identify and evaluate any necessary remedial action alternatives and their costs. As part of the RI/FS, a Risk Assessment identifies potential effects on human health or the environment to help evaluate remedial action alternatives.

 The selected alternative is planned and conducted in the remedial design and remedial action stages. Monitoring then ensures the effectiveness of the effort.

A second program to address present hazardous material management is the Resource Conservation and Recovery Act (RCRA) Corrective Action Program. This program is designed to identify and clean up releases of hazardous substances at RCRA-permitted facilities. RCRA ensures that solid and hazardous wastes are managed in an environmentally sound manner. The law applies primarily to facilities that generate or handle hazardous waste.

The RCRA program is conducted in the following three stages.

- The RCRA Facility Assessment (RFA) identifies solid waste management units (SWMUs), evaluates the potential for releases of contaminants, and determines the need for future investigations.
- The RCRA Facility Investigation (RFI) then determines the nature, extent, and fate of contaminant releases.
- The Corrective Measures Study (CMS) identifies and recommends measures to correct the release.

The hazardous waste investigations at Naval Station Mayport are presently being conducted under the RCRA Corrective Action Program. Earlier preliminary investigations had been conducted at Naval Station Mayport under the Navy's NACIP program and IR program following Superfund guidelines. In 1988, in coordination with the U.S. Environmental Protection Agency (USEPA) and the Florida Department of Environmental Regulation (FDER; now know as the Florida Department of Environmental Protection [FDEP]), the hazardous waste investigations were formalized under the RCRA program.

Mayport is conducting the cleanup at their facility by working through the Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM). The USEPA and the FDEP oversee the Navy environmental program. All aspects of the program are conducted in compliance with State and Federal regulations, as ensured by the participation of these regulatory agencies.

Questions regarding the RCRA program at NAVSTA Mayport should be addressed to Mr. David Driggers, Code 1852, at (803) 743-0501.

EXECUTIVE SUMMARY

This Resource Conservation and Recovery Act (RCRA) Facility Assessment Sampling Visit (RFA SV) report (Confirmatory Sampling Report) addresses the following solid waste management units (SWMUs).

Group I SWMUs

- SWMU 26, Landfill C
- SWMU 49, Flight Line Retention Ponds
- SWMU 50, East and West Dredge Spoil Disposal Areas
- SWMU 56, Building 1552 Accumulation Area

Group II SWMUs

- SWMU 19, Naval Aviation Depot (NADEP) Blasting Area
- SWMU 28, Defense Reutilization and Marketing Office (DRMO) Yard
- SWMU 48, Former Chemistry Laboratory Accumulation Area

The confirmatory sampling events were conducted in accordance with the RCRA Corrective Action Program at Naval Station (NAVSTA) Mayport described in the Corrective Action Management Plan (ABB Environmental Services, Inc. [ABB-ES]; 1995a), under U.S. Environmental Protection Agency (USEPA) Permit Identification Number FL9 170 024 026.

The RFA/SV activities were conducted because a release of RCRA hazardous substances from these Group I and II SWMUs to the environment was suspected, but not confirmed. The purpose of this report is to describe the sampling activities, findings, conclusions, and recommendations of the RFA/SV activities at the Group I and II SWMUs.

The Group I RFA/SV investigations at NAVSTA Mayport did not find evidence of a significant release of target analytes selected from the Appendix IX (40 Code of Federal Regulations Part 264) Groundwater Monitoring List or USEPA Contract Laboratory Program from SWMU 19, Naval Aviation Depot (NADEP) Blasting Area; SWMU 26, Landfill C; SWMU 28, Defense Reutilization and Marketing Office (DRMO) Yard; SWMU 48, Former Chemistry Laboratory Accumulation Area; and SWMU 56, Building 1552 Accumulation Area. This conclusion is based on the concentration and frequency of detection of the various compounds and elements detected during the investigation, comparison to screening values developed from background samples (surface and subsurface soil, surface water, sediment, and groundwater), human health risk based values, and values developed from evaluation of adverse ecological effects of various chemicals on benthic organisms in sediment. These sites are recommended for no further investigation at this time.

Ecological diversity and aquatic and sediment toxicity testing should be conducted at SWMU 49, Flight Line Retention Pond, and SWMU 50, East and West Dredge Disposal Areas, to assess whether continued discharge from the industrial area is adversely affecting the ecology of the two SWMUs.

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GLOSSARY

AFFF aqueous film-forming foam

AOC Area of Concern

APHA American Public Health Association AWQC ambient water quality criteria

bls below land surface

CAMP Corrective Action Management Plan

CERCLA Comprehensive Environmental Response, Compensation, and

Liability Act

CFR Code of Federal Regulations
CMS Corrective Measures Study
COD chemical oxygen demand

DDD dichlorodiphenyldichloroethane
DDE dichlorodiphenyldichloroethane
DDT dichlorodiphenyltrichloroethane

DOD Department of Defense

DRMO Defense Reutilization and Marketing Office

EP Extraction Procedure
ER-L effects range-low
ER-M effects range-median

ESE Environmental Science and Engineering, Inc.

FAC Florida Administrative Code

FDEP Florida Department of Environmental Protection FDER Florida Department of Environmental Regulation

ft/ft feet per foot

GIR General Information Report

HHCPC human health chemicals of potential concern

HI hazardous index

HSWA Hazardous and Solid Waste Amendments of 1984

IAS Initial Assessment Study IR Installation Restoration

MCL maximum contaminant level mg/kg milligrams per kilogram

MPT Mayport

msl mean sea level

 $\begin{array}{ll} \text{mg}/\ell & \text{milligrams per liter} \\ \mu\text{g}/\text{kg} & \text{micrograms per kilogram} \\ \mu\text{g}/\ell & \text{micrograms per liter} \end{array}$

NACIP Navy Assessment and Control of Installation Pollutants

NADEP Naval Aviation Depot

NAVSTA Naval Station

NCP National Oil and Hazardous Substances Contingency Plan

GLOSSARY (Continued)

NEESA Naval Energy and Environmental Support Activity

NGVD National Geodetic Vertical Datum

NIRP Navy Installation Restoration Program

NOAA National Oceanic and Atmospheric Administration

NOEL no observed effects level

OVA organic vapor analyzer
OWTP oily waste treatment plant

PA Preliminary Assessment

PAH polynuclear aromatic hydrocarbons

PCB polychlorinated biphenyl PEL probable effects level

QA quality assurance QC quality control

RBC risk based concentration

RCRA Resource Conservation and Recovery Act of 1976, as amended

RFA RCRA Facility Assessment
RFI RCRA Facility Investigation

RI/FS Remedial Investigation/Feasibility Study

SARA Superfund Amendments and Reauthorization Act

SI Site Inspection

SOUTHNAV- Southern Division, Naval Facilities Engineering Command

FACENGCOM

SMP Site Management Plan SSL soil screening level

SV Sampling Visit

SVOC semivolatile organic compound SWMU Solid Waste Management Unit

TCLP Toxicity Characteristic Leaching Procedure

USC U.S. Code

USEPA U.S. Environmental Protection Agency

VOC volatile organic compound VSI Visual Site Inspection

1.0 INTRODUCTION

This report presents the site descriptions and background, field investigative activities, findings, preliminary risk evaluation, and conclusions and recommendations of the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) Sampling Visit (SV) for confirmatory sampling at Groups I and II Solid Waste Management Units (SWMUs) at U. S. Naval Station (NAVSTA) Mayport, Florida. NAVSTA Mayport is located in northeastern Duval County, Florida, at the confluence of the St. Johns River and the Atlantic Ocean. Figure 1-1 presents the regional setting of NAVSTA Mayport.

The RCRA Corrective Action Program General Information Report (GIR) for NAVSTA Mayport (ABB-ES, 1995b) provides information common to all four SWMU groups being investigated including background sampling information and analytical methodology, risk assessment approach, and the ecological characterization of NAVSTA Mayport. The NAVSTA Mayport GIR includes a summary of published information including geography, physiography, demographics, climate, regional geology, and hydrogeology; methods and procedures used to conduct the field activities; methodology used to validate analytical data and conduct risk assessments; and characterization of station-wide background conditions including surface and subsurface soil, surface water, sediment, and groundwater that will be used to evaluate the data from each RFA SV SWMU. The information contained in the GIR (ABB-ES, 1995b) is common to all of NAVSTA Mayport's SWMUs, and it will not be repeated in this confirmatory sampling report.

1.1 RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) CORRECTIVE ACTION PROGRAM. The U.S. Environmental Protection agency (USEPA) issued permit No. H016-118598 (FL9 170 024 260) to NAVSTA Mayport on March 25, 1988, in accordance with the Hazardous and Solid Waste Amendments (HSWA) of 1984. The permit was revised and reissued on June 15, 1993 (USEPA, 1988a). An RFA Visual Site Inspection (VSI) for NAVSTA Mayport was conducted on behalf of the USEPA Region IV by their contractor, A.T. Kearney, Inc. (A.T. Kearney, 1989). The RFA identified 56 SWMUs and 2 areas of concern (AOC) at NAVSTA Mayport. Eighteen SWMUs were determined to require an RCRA Facility Investigation (RFI) because hazardous substance releases to the environment were confirmed and required further characterization to determine the nature and extent of contamination. Fifteen SWMUs were determined not to require further action because no release of hazardous substances to the environment had occurred. Twenty-three SWMUs were determined to require further investigation because hazardous substance releases to the environment were suspected but not confirmed. RFA SVs have been conducted at 7 of these 23 sites to confirm the presence or absence of a release(s) to the environment (Table 1-1). SWMU 51 consists of petroleum underground storage tanks and appurtenances and is being managed under a different program of RCRA (e.g., 40 Code of Federal Regulations [CFR], Part 280, Subtitle C, Regulation of Underground Storage Tanks). The other 15 SWMUs will be investigated during subsequent RFA SVs.

Due to the number of SWMUs at NAVSTA Mayport, the diversity of their past and/or present operations, and the magnitude of permit requirements, the USEPA recommended that a phased approach be used to implement RFI, RFA SV, and other corrective action activities. A Corrective Action Management Plan (CAMP) was prepared that describes the phased approach, proposed schedule, and strategy to

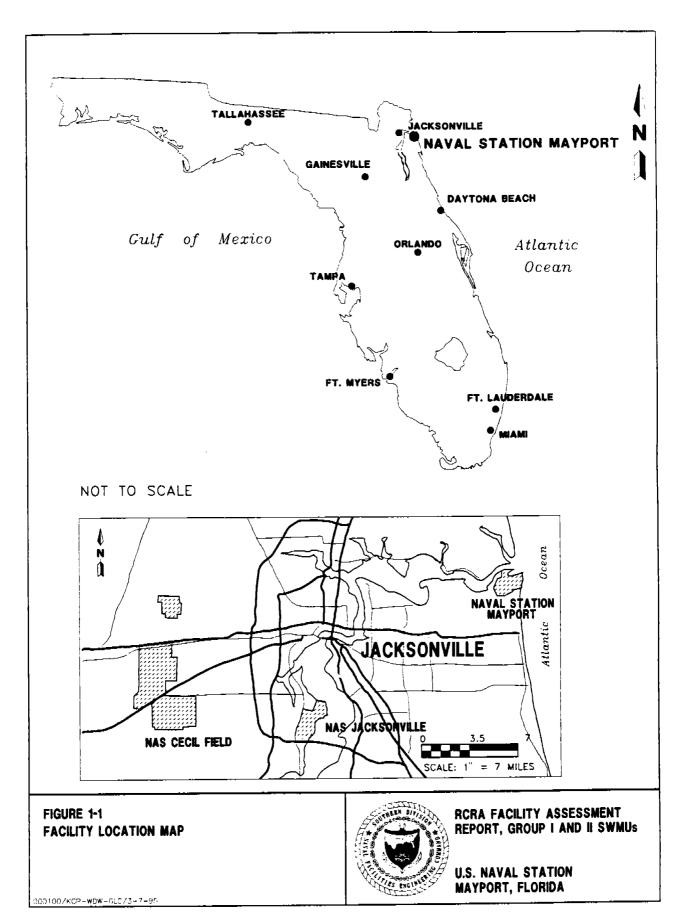


Table 1-1

Solid Waste Management Units Requiring a Resource Conservation and Recovery Act (RCRA) Facility Assessment Sampling Visit (RFA SV)

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

Group I-Ri	FA SV Solid Waste Management Units	RFA SV Conducted (Yes/No)
2 6	Landfill C	Yes
49	Flight Line Retention Ponds	Yes
50	East and West Dredge Spoil Disposal Areas	Yes
56	Building 1552 Accumulation Area	Yes
Group II F	FA SV Solid Waste Management Units	RFA SV Conducted (Yes/No)
19	Naval Aviation Depot (NADEP) Blasting Area	Yes
28	Defense Reutilization Marketing Office (DRMO) Yard	Yes
48	Former Chemistry Laboratory Accumulation Area	Yes
51	Waste Oil Tanks	No¹
Group III I	RFA SV Solid Waste Management Units	RFA SV Conducted (Yes/No)
18	Fleet Training Center (FTC) Diesel Generator Sump	. No
20	Hobby Shop Drain	No
21	Hobby Shop Scrap Storage Area	No
23	Jacksonville Shipyard, Inc. (JSI), Area	No
24	North Florida Shipyard, Inc. (NFSI), Area	No
25	Atlantic Marine, Inc. (AMI), Area	No
29	Oily Waste Pipeline Break	No ¹
44	Wastewater Treatment Facility Clarifiers 1 and 2	No
45	Sludge Drying Beds	No
46	Shore Intermediate Maintenance Activity (SIMA) Engine Drain Sump	No
52	Public Works Department (PWD) Service Station Storage Area	No ¹
Group IV	RFA SV Solid Waste Management Units	RFA SV Conducted (Yes/No)
47	Oily Waste Collection System	No
53	Sewer Pipelines	No
54	Oil/Water Separators	No
55	Storm Sewer and Drainage System	No
AOC A	Fuel Distribution System	No ²
AOC B	Underground Product Storage Tanks	No ²

¹ SWMUs 29, 51, and 52 area being assessed under Chapter 62-770, Florida Administrative Code (FAC) (State Underground Petroleum Environmental Response).

Note: AOC = Area of Concern.

² Area of concern (AOC) requires assessment to determine if confirmatory sampling is warranted.

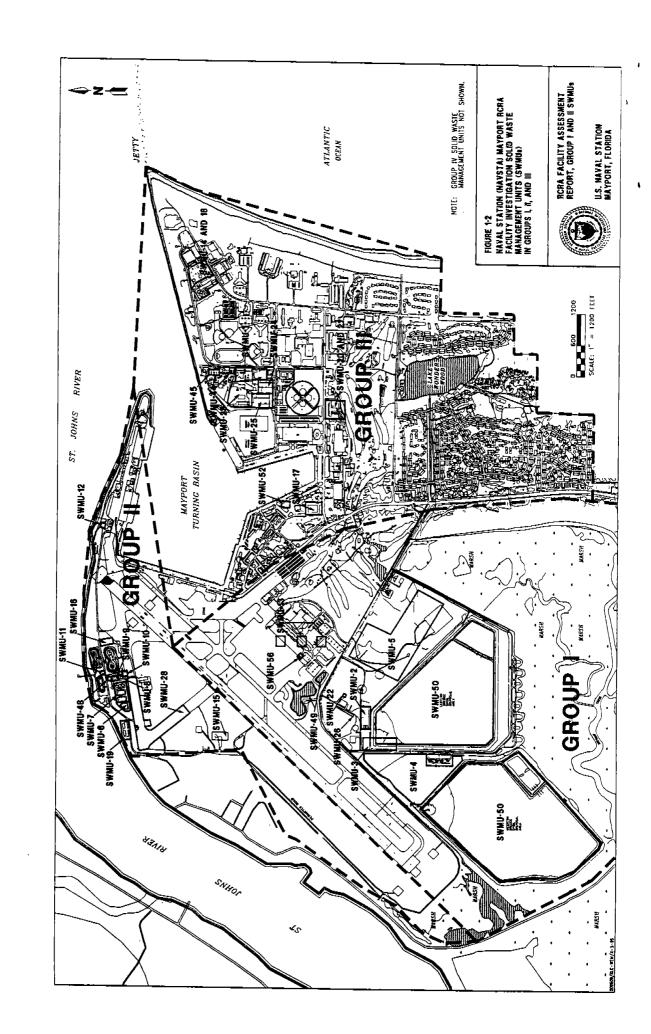
implement the RCRA Corrective Action Program at NAVSTA Mayport. The original CAMP is located in Appendix F of Volume I of the USEPA-approved RFI workplan (ABB-ES, 1991). The CAMP identifies the operational groups of SWMUs, ranks them by their relative risks to human health and the environment, and contains the proposed schedule for the field investigations and report submittals. A revised CAMP was submitted for regulatory approval in March 1995 (ABB-ES, 1995a).

Four SWMU groups are defined in the CAMP. SWMU Groups I through III are presented on Figure 1-2. SWMU Groups I through III were defined by grouping of individual SWMUs within a geographic area that have similar past waste management practices and the potential for similar corrective measures. Group IV SWMUs are not directly associated within a given geographic area, but consist of utility networks and systems that span multiple geographic areas and are not shown on Figure 1-2.

The Group I SWMUs are located in the southwest part of NAVSTA Mayport and include former landfills, active dredge spoil disposal areas, and other individual SWMUs. These SWMUs were incorporated into Group I because of their proximity to each other, common drainage to the Sherman Creek watershed, similarity of past waste disposal activities, and the potential for similar or related corrective measures. Group I SWMUs were ranked as Priority 1 because of a "high perceived risk" for numerous contaminants to cover a large areal extent affecting large volumes of soil and groundwater.

The Group II SWMUs are located along the northern part of NAVSTA Mayport contiguous with the St. Johns River and include current and former hazardous and solid waste storage areas and petroleum waste treatment and disposal facilities. The SWMUs were incorporated into Group II because of their proximity to each other and to the St. Johns River and their potential for similar or related corrective measures. Group II SWMUs were ranked as Priority 2 because of a "moderate perceived risk" for contaminants to cover an area affecting moderate volumes of soil and groundwater, and the potential for adverse impacts on ecological receptors by soil and groundwater. This report presents the results of RFA SV activities at the SWMUs in Group I and II (Table 1-1) identified by the permit as requiring Confirmatory Sampling.

- 1.2 PREVIOUS INVESTIGATIONS AT GROUPS I AND II SWMUS. The following presents a brief summary of the historical evolution of the investigations at NAVSTA Mayport's Groups I and II SWMUs. Group III and IV SWMUs will be addressed in subsequent confirmatory sampling events in accordance with the schedule presented in the NAVSTA Mayport CAMP (ABB-ES, 1995a).
- 1.2.1 SWMU Group I Investigations Phase 1 of the RCRA Corrective Action Program addressed the SWMUs located in Group I and included field investigation activities for both the RFI site characterizations and RFA SVs. The Group I SWMUs that require an RFI are SWMUs 2, 3, 4, 5, 13, and 22 (USEPA, 1988a; A.T. Kearney, 1989) (Figure 1-2) RFI field activities for SWMUs in Group I were performed in early 1992 and a Phase 1 RFI report was submitted to USEPA and Florida Department of Environmental Protection (FDEP) in November 1992 (ABB-ES, 1992a). Data gaps were identified and additional site characterization activities were conducted in 1994. The results of these investigations will be presented in a separate report.



The Group I SWMUs requiring confirmatory sampling are SWMUs 26, 49, 50, and 56. Figure 1-3 presents the locations of the Group I RFA SV SWMUs. SWMU 26 is Landfill C. SWMU 49 consists of the two Flight Line Retention Ponds. SWMU 50 includes the East and West Dredge Spoil Disposal Areas. SWMU 56 is the Building 1552 Accumulation Area.

An RFA SV workplan (confirmatory sampling) for these Group I SWMUs was prepared and submitted for regulatory review in February 1992 (ABB-ES, 1992b). The workplan was approved by regulatory agencies and implemented in late April 1992. A RFA SV report (confirmatory sampling report) was submitted in November 1992 (ABB-ES, 1992c). Several data gaps were identified and subsequently addressed in the RFA SV workplan, Addendum 1, Group I Area, submitted in November 1993 (ABB-ES, 1993a). Field activities for the Group I RFA SV SWMUs were conducted during August and September 1994. This report presents the results from both confirmatory sampling events.

1.2.2 SWMU Group II Investigations Phase 2 of the RCRA Corrective Action Program addressed the SWMUs located in Group II and included field investigative activities for both the RFI site characterizations and RFA SVs.

The Group II SWMUs that require an RFI are SWMUs 6, 7, 8, 9, 10, 11, 12, 15, and 16 (USEPA, 1988a; A.T. Kearney, 1989) (Figure 1-2). Releases of hazardous substances to the environment have been confirmed at these sites. RFI field activities for the SWMUs in Group II were initiated in March 1993 and completed in December 1994. The results of these activities will be presented in a separate report.

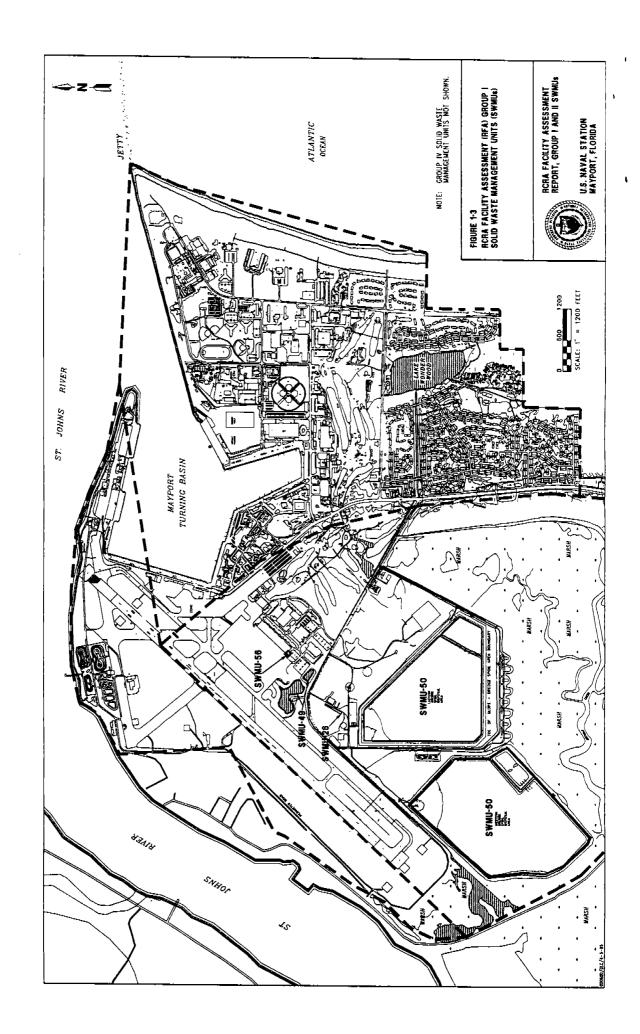
The Group II SWMUs requiring confirmatory sampling are SWMUs 19, 28, and 48. Figure 1-4 presents the locations of the Group II RFA SV SWMUs. SWMU 19 is the Naval Aviation Depot (NADEP) Blasting Area, SWMU 28 is the Defense Reutilization and Marketing Office (DRMO) Yard, and SWMU 48 is the Former Chemistry Laboratory Accumulation Area.

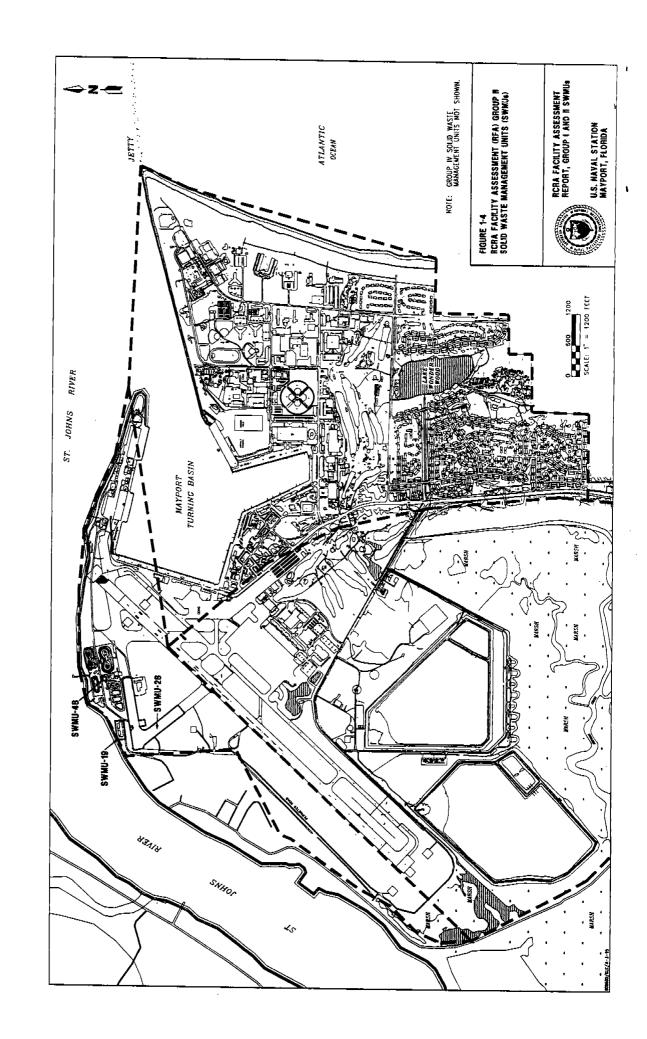
An RFA SV workplan (confirmatory sampling) for these Group II SWMUs was prepared and submitted for regulatory review in November 1993 (ABB-ES, 1993b). Field activities for the Group II RFA SV SWMUs were conducted during August and September 1994. This report presents the results of the confirmatory sampling event.

1.3 RFA SV REPORT FORMAT. This report on confirmatory sampling activities at the Groups I and II RFA SV SWMUs presents one chapter per SWMU. Each chapter includes a site description and site history, field investigative activities, findings, a preliminary risk evaluation, and conclusions and recommendations. Each chapter contains the following elements.

<u>Site Description and Background</u> provides literature information and previous investigative data describing waste management practices, types and quantities of contaminants, and affected media at that SWMU.

RFA and SV Field Investigations describes the data collection activities and deviations, if any, from the workplan that occurred during the Groups I and II RFA SVs.





<u>Findings</u> presents the results of laboratory analyses of environmental samples (surface and subsurface soil, surface water, sediment, and groundwater) collected during the Groups I and II RFA SV field investigations.

<u>Preliminary Risk Evaluation</u> presents the preliminary assessment of risk for human health and the environment for the SWMU.

<u>Conclusions and Recommendations</u> provides an assessment of the findings relative to the bench mark screening criteria for each media at a site (soil, surface water, sediment, or groundwater).

Data analysis has been focused to support one of the following recommendations for each SWMU: (1) take no further action, (2) investigate nature and extent of contamination by performing an RFI, or (3) implement interim measures.

Except as noted within this report, field activities were conducted in accordance with the approved Phase 1 RFA SV workplan (ABB-ES, 1992b); Addendum 1, Group I SWMUs (ABB-ES, 1993a); and the Phase 2 RFA SV workplan for Group II SWMUs (ABB-ES, 1993b). The general operating guidelines for access, security, and field team organization implemented during RFA SV activities were consistent with RFI requirements as described in Chapter 2.0, Site Management Plan (SMP), of the RFI workplan, Volume II (ABB-ES, 1991). In addition, Section 3.1, General Site Operations, of the RFI workplan, Volume II, provides descriptions of field personnel responsibilities, sample identification, sample management, chain of custody, project documentation, field changes, corrective actions, decontamination, waste management, and other general project standards and procedures. These general requirements were followed during the Groups I and II RFA SV activities.

The following chapters summarize SWMU site descriptions and background, describe the rationale and procedures for field investigations, and present the findings from data gathering activities. The chapters appear in the following order.

Group I SWMUs

- · Chapter 2.0, SWMU 26 Landfill C
- · Chapter 3.0, SWMU 49 Flight Line Retention Ponds.
- · Chapter 4.0, SWMU 50 East and West Dredge Spoil Disposal Areas
- · Chapter 5.0, SWMU 56 Building 1552 Accumulation Area

Group II SWMUs

- · Chapter 6.0, SWMU 19 Naval Aviation Depot (NADEP) Blasting Area
- Chapter 7.0, SWMU 28 Defense Reutilization and Marketing Office (DRMO)
 Yard
- · Chapter 8.0, SWMU 48 Former Chemistry Laboratory Accumulation Area.

2.0 SOLID WASTE MANAGEMENT UNIT (SWMU) 26, LANDFILL C

2.1 SITE DESCRIPTION AND BACKGROUND. Landfill C (SWMU 26) is located north of Landfill B (SWMU 2) in the central part of NAVSTA Mayport (Figure 1-3). SWMU 26 was reported to be used in 1963 for one-time disposal of scrap metal and construction debris transported to NAVSTA Mayport from Green Cove Springs Naval Facility (A.T. Kearney, 1989). Currently, no written documentation has been found to corroborate the disposal of material from the Green Cove Springs Naval Facility. The disposal area consisted of a trench approximately 100 feet long, 20 feet wide, and 8 feet deep into which debris was placed. The landfill is now covered with soil and supports vegetation (Disturbed Messic Flatwood; with slash pines, cedar, cherry laurels, and cabbage palms and a dense undergrowth of woody and herbaceous plants [ABB-ES, 1995b]). No hazardous wastes were disposed at the site according to the IAS (Environmental Science and Engineering, Inc. [ESE], 1986).

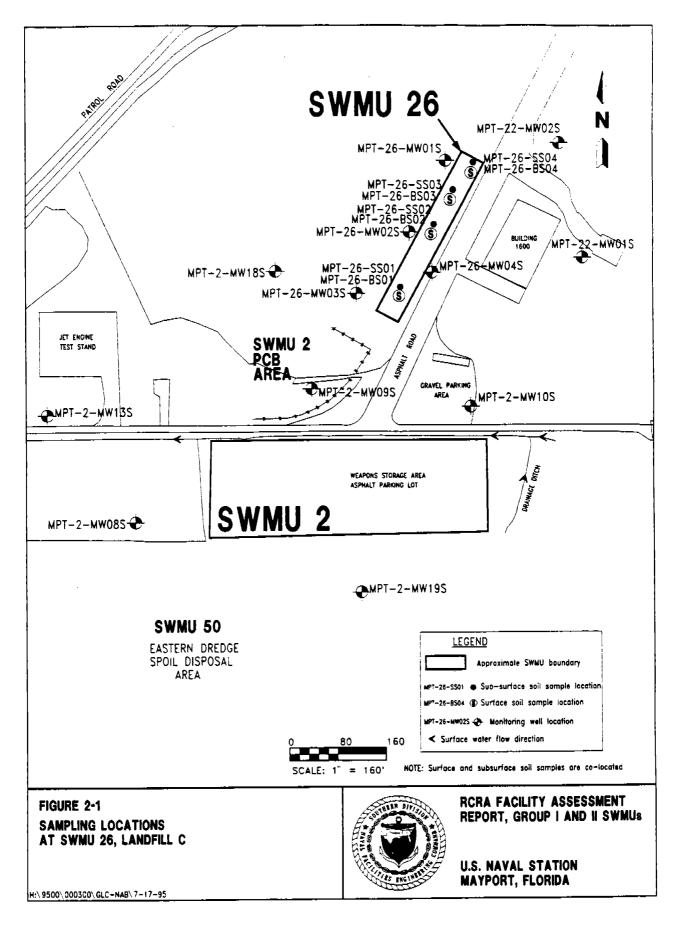
SWMU 26 was identified during the IAS as Naval Installation Restoration Program (NIRP) Site 3. The IAS recommended no further investigation because no hazardous wastes were known to have been disposed in SWMU 26 during its brief period of operation in 1963. The SWMU was not identified in the original HSWA permit as an SWMU requiring an RFI (USEPA, 1988a). The RFA (A.T. Kearney, 1989) recommended that documentation be obtained verifying the types of waste disposed at this site. Alternatively, the RFA suggested that soil sampling be conducted to determine if a release to the soil had occurred.

Historical data suggest that only construction debris was disposed at SWMU 26. Prior to the RFA SV field investigation, no additional documentation describing the materials disposed at this site was found. The available historical documentation was reported in the IAS (ESE, 1986) and RFA (A.T. Kearney, 1989).

2.2 RFA SV FIELD INVESTIGATIONS. In the absence of additional supporting documentation, soil sampling was conducted in April 1992 to assess whether hazardous constituents have been or are being released at the site. The sampling event consisted of collecting four surface (land surface to a depth of 6 inches) and four subsurface soil samples (4 to 4.5 feet beneath the land surface) to evaluate soil as a potential exposure pathway. The locations of the surface and subsurface soil samples are shown on Figure 2-1.

The detection of volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs) in soil samples collected during the April 1992 investigation at SWMU 26 suggest that materials other than "construction debris" may have been deposited in the trench that comprises Landfill C. During the sampling event the water table at the SWMU 26 area was found to be approximately 4.5 feet below land surface (bls). Because the suspected depth of the trench is 8 feet bls, it is apparent that the "debris" was deposited below the water table and a release to groundwater is possible.

Based on the soil sampling results, four monitoring wells were installed at SWMU 26 and groundwater samples were collected in July 1994 to assess whether hazardous constituents have been released to groundwater at or near the site and to evaluate groundwater as a potential exposure pathway. Monitoring well locations are presented on Figure 2-1.



Because many field activities are similar for all NAVSTA Mayport SWMUs, the sampling procedures for RFI and RFA SV (confirmatory sampling) events are described in Section 2.1, Summary of Exploration and Sampling Program, of the NAVSTA Mayport GIR (ABB-ES, 1995b). Site-specific elements and deviations from sampling procedures, if any, particular to SWMU 26 are discussed in subsequent paragraphs, and standard operating procedures are referenced where necessary. Monitoring well installation, soil and groundwater sampling procedures, and associated equipment decontamination procedures were conducted in general conformance with USEPA Region IV Standard Operating Procedures (USEPA, 1991a).

<u>Soil Sample Collection Procedure</u>. Surface and subsurface soil sampling was accomplished as described in the NAVSTA Mayport RFI workplan (ABB-ES, 1991), and Subsection 2.1.1, Soil Sampling, of the GIR (ABB-ES, 1995b).

Monitoring Well Installation Procedure. Drilling and well installation was accomplished as described in the NAVSTA Mayport RFI workplan (ABB-ES, 1991), and Subsection 2.1.1, Monitoring Well and Piezometer Installation, of the GIR (ABB-ES, 1995b).

Groundwater Sample Collection Procedure. Groundwater sampling was accomplished as described in Subsection 2.1.4, Groundwater Sampling, of the GIR (ABB-ES, 1995b). The groundwater sample collection method used was low flow sampling.

Laboratory Analysis. Soil and groundwater samples were analyzed for target analytes selected from the Groundwater Monitoring List contained in Appendix IX, 40 CFR, Part 264, and USEPA Contract Laboratory Program target compound list and target analyte list, including VOCs, SVOCs, pesticides, PCBs, metals, and cyanide. The analysis was conducted using methods contained in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, USEPA SW846 (USEPA, 1986). A list of the target analytes is provided in Appendix A. Analytical results from the 1992 sampling event were presented in the RFA SV Report, Phase 1 (ABB-ES, 1992c), and results of the 1994 sampling event are provided in Appendix B.

2.3 FINDINGS. The following presents a brief description of the results of the RFA SV sampling activities at SWMU 26. The findings include site geologic and hydrogeologic conditions and results of the analyses of surface and subsurface soil samples and groundwater samples.

Site Geology. In June 1994, four soil borings were drilled at SWMU 26 for the installation of shallow monitoring wells (monitoring wells with screens placed across the water table) (Figure 2-1). Boring logs for these four monitoring wells and the other monitoring wells shown in Table 2-1 are presented in the NAVSTA Mayport GIR, Appendix A, Boring Logs (ABB-ES, 1995b).

Subsurface soils encountered during installation of the four monitoring wells at SWMU 26 had considerable variation over the short lateral distance between each location. The following is a description of the subsurface soils encountered at each of the four locations.

 Boring MPT-26-MW01S (located near the northern corner of SWMU 26) encountered a silty sand to a depth of approximately 5.5 feet bls, which was overlying a clayey sand to the explored depth of 12.5 feet bls.

Table 2-1 Solid Waste Management Unit (SWMU) 26 Water Level Data, August 30, 1994

Groups I and II RFA SV Report U. S. Naval Station Mayport, Florida

			Water Level	
Well or Piezometer	Elevation (NGVD)	Time (EST)	Depth (TOC)	Elevation (msl)
MPT-2-MW08S	10.55	06:39 pm	3.51	7.04
APT-2-MW09S	10.50	12:00 pm ¹	3.51	7.04
MPT-2-MW10S	10.02	12:45 pm	3.20	6.82
UPT-2-MW18S	6.37	12:32 pm	3.95	2.42
MPT-22-MW01\$	7.15	12:10 pm	2.68	4.47
MPT-22-MW02S	6.70	12:05 pm	2.77	3.93
MPT-26-MW01\$	5.58	12:20 pm	1.91	3.94
MPT-26-MW02S	6.68	12:25 pm	2.50	4.38
MPT-26-MW03S	7.05	12:28 pm	1.48	5.57
MPT-26-MW04S	7.21	12:48 pm	2.58	4.63

¹ Water level recorded by a programmable electronic monitor.

Notes: NGVD = National Geodetic Vertical Datum of 1929.

EST = Eastern Standard Time. TOC = top of casing as datum.

msi = mean sea level.

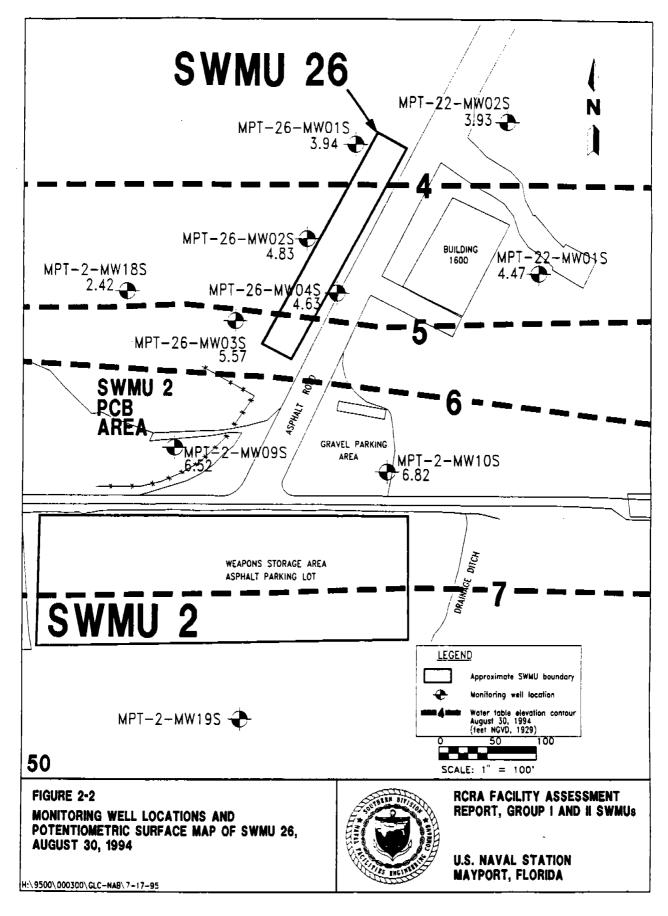
- Boring MPT-26-MW02S (located on the west central side of SWMU 26) encountered a silty sand from the land surface to the explored depth of 12.5 feet bls.
- Boring MPT-26-MW03S (southwest corner of SWMU 26) encountered four distinct lithologic materials, a silty sand from the land surface to a depth of approximately 3.5 feet, underlain by silty sands and gravel to approximately 10 feet bls, which occurred over a silty clay to approximately 11.5 feet bls, and was terminated in a clayey sand at 12.5 feet.
- Boring MPT-26-MW04S (southeast side of SWMU 26) encountered a silty sand from the land surface to approximately 8 feet bls, which overlies a clay layer that occurred to a depth of approximately 10.7 feet bls, and was terminated in a silty sand at a depth of 12.5 feet bls.

Geologic cross sections provided in the NAVSTA Mayport GIR (see Figures 3-3 and 3-4, ABB-ES, 1995b) depict subsurface geologic conditions in the vicinity of SWMU 26.

Site Hydrogeology. The groundwater level at each SWMU 26 monitoring well and for other RFI and RFA SV sites at NAVSTA Mayport was measured during a 7-hour period on August 30, 1994. The depth to the groundwater at each location was measured relative to a notch or mark on the north side of each monitoring well surveyed to the National Geodetic Vertical Datum (NGVD) of 1929 (commonly referred to as mean sea level [msl]). The depths to groundwater measured at each of the SWMU 26 monitoring wells are provided in Table 2-1 along with depths to groundwater measured at other monitoring wells in the vicinity of the site. Also shown on the table are values for the water level measurements relative to the NGVD datum. The elevation data were used to prepare a map of the potentiometric surface (lines that represent altitudes of equal height above the reference datum) of the water table zone of the surficial aquifer (Figure 2-2). The potentiometric surface map of the water table is used to infer that groundwater flow is from higher to lower altitudes in a direction perpendicular to the equipotential Based on the equipotential lines shown on Figure 2-2, the groundwater flow direction at SWMU 26 is generally toward the north.

The hydraulic position of the monitoring wells relative to SWMU 26 also is based on the equipotential lines shown on Figure 2-2. Monitoring wells MPT-2-MW09S and MPT-2-MW10S are located hydraulically upgradient from SWMU 26 (Table 2-2). Monitoring wells MPT-26-MW03S and MPT-26-MW04S are along a similar hydraulic equipotential line as the southern part of SWMU 26. Monitoring wells MPT-26-MW01S and MPT-26-MW02S are located hydraulically downgradient of SWMU 26.

An approximation of the horizontal linear velocity of groundwater flow in the water table zone of the surficial aquifer in the vicinity of SWMU 26 is based on the potentiometric surface (hydraulic gradient) of the water table, estimates of radial hydraulic conductivities at monitoring well locations, and an estimate of the porosity (ratio of the volume of voids to total volume of the soil) of the saturated subsurface soil. The horizontal linear velocity was calculated from a modified form of Darcy's equation and represents the ratio of linear travel distance to travel time between two points (Freeze and Cherry, 1979). The horizontal linear velocity is expressed as $V_{\rm D}/N_{\rm e}$, where $V_{\rm D}$ is the Darcy velocity ($V_{\rm D}$ = KI, K = radial hydraulic conductivity, and I = hydraulic gradient) and $N_{\rm e}$ is the effective porosity of the saturated geologic stratum. An effective



porosity of 0.35 is used in the calculations. (See Section 3.2.3, Physical Characteristics of Soil, in the NAVSTA Mayport GIR [ABB-ES, 1995b]).

Table 2-2
Summary of Monitoring Well Installations Near SWMU 26

Groups I and II RFA SV Report U. S. Naval Station Mayport, Florida

SWMU Number	Monitoring Well No.	Hydraulic Position to SWMU 26	Diameter (inches)	Total Depth (feet)	Screened interva
2	MPT-2-MW08S	S	2	10	3 to 10
2	MPT-2-MW09S	U	2	10	3 to 10
2	MPT-2-MW10S	U	2	15	5 to 10
2	MPT-2-MW18S	s	2	12.5	2 to 12
22	MPT-22-MW01S	s	2	12	2 to 12
22	MPT-22-MW02S	s	2	13.5	3 to 13
26	MPT-26-MW01S	D	2	12.5	2 to 12
26	MPT-26-MW02S	D	. 2	12.5	2 to 12
26	MPT-26-MW03S	s	2	12.5	2 to 12
26	MPT-26-MW04S	_s	2	12.5	2 to 12

Notes: SWMU = solid waste management unit.

bis = below land surface.

In-situ radial hydraulic conductivity values for monitoring wells in the vicinity of SWMU 26 are presented in Table 2-3. The range of in-situ radial hydraulic conductivity values in the vicinity of SWMU 26 is approximately 4.6 feet per day (MPT-2-MW18S) to 5.7 feet per day (MPT-2-MW05S). The hydraulic gradient appears to be relatively uniform over SWMU 26 (0.003 foot per foot [ft/ft] on August 30, 1994) and an approximation of the horizontal linear velocity of the groundwater ranges from approximately 0.05 to 0.09 foot per day.

Based on the values for horizontal linear velocity and assuming no dilution, dispersion or retardation, a contaminant in the water table zone of the surficial aquifer may travel at rates of 18 to 33 feet per year (Table 2-3).

Surface and Subsurface Soil Analytical Results. Tables 2-4 and 2-5 summarize the validated analytical results for organic and inorganic target analytes, respectively, detected in the surface and subsurface soil samples collected at SWMU 26. Complete analytical results were presented in the RFA SV Report, Phase 1 (ABB-ES, 1992c). A summary of frequencies of detection, range of detection limits, range of detected concentrations, and arithmetic mean and bench mark comparison values are provided in Tables 2-6 and 2-7 for surface and subsurface soil samples, respectively. The target analytes detected in the environmental samples were compared to background screening values computed from station-wide surface and subsurface soil samples (ABB-ES, 1995b), and benchmark values from

S = hydraulically sidegradient.

U = hydraulically upgradient.

D = hydraulically downgradient.

USEPA Region III risk based concentrations (RBC) (USEPA, 1995), the USEPA Superfund soil screening levels (SSLs) (USEPA, 1994), and the State of Florida cleanup goals (FDEP, April 1995). Surface and subsurface soil concentrations were compared to an aggregate residential exposure (child and adult) for USEPA Region III RBCs and USEPA SSLs. Values for Florida cleanup goals consist of aggregate residential exposure (child and adult) for surface soil, whereas subsurface soil concentrations were compared to an industrial worker exposure.

Table 2-3
Average Groundwater Velocities at SWMU 26

Groups I and II RFA SV Report U. S. Naval Station Mayport, Florida

		WAYPO	t, Fibrida		
Location	Estimated Effective Porosity	Hydraulic Conductivity (ft/day)	Estimated Gradient ¹ (ft/ft)	Estimated Linear Velocity (ft/day)	Estimated Linear Velocity (ft/year)
MPT-2-MW05S	0.35	5.7²	0.003	0.05	18
MPT-2-MW10S	0.35	5.5³	0.003	0.05	18
MPT-2-MW09S	0.35	5.5³	0.003	0.05	18
MPT-2-MW18S	0.35	4.6	0.007	0.09	33

^{&#}x27; Based on synoptic water table elevations.

Notes: ft/day = feet per day. ft/ft = feet per foot. ft/year = feet per year.

Each of the bench mark criteria provided in Tables 2-6 and 2-7 are human health based and represent the lower of either a noncarcinogenic Hazard Index (HI) where values of less than 1 represent a concentration at which noncarcinogenic effects are not likely, or a lifetime excess cancer risk of 10^{-6} , which represents a chance of 1 in 1,000,000 for an adverse carcinogenic effect for a continuous lifetime exposure. The concentrations listed for the USEPA Region III RBCs correspond to an HI of 0.1, whereas the USEPA Superfund SSLs and the State of Florida cleanup goals are based on an HI of 1. The Federal National Oil and Hazardous Substance Pollution Contingency Plan (NCP), Final Rule, (40 CFR, Part 300) states that for carcinogens a lifetime excess cancer risk in the range of 10^{-4} (a chance of 1 in 10,000 for an adverse carcinogenic effect for a continuous lifetime exposure) to 10^{-6} represents concentrations that are considered by USEPA to be protective of human health.

Four surface and subsurface soil sample pairs were collected on April 21, 1992, along the center line of SWMU 26 on 75-foot centers (Figure 2-1). Surface soil samples were collected from 0 to 0.5 foot bls. The subsurface soil samples were collected above the water table at a sampling interval of 4 to 4.5 foot bls.

Surface soil at SWMU 26 consists of light tan, fine- to medium-grained sand with numerous shell fragments. Subsurface soil collected at sampling locations MPT-26-SS/BS02 and MPT-26-SS/BS03 was similar to the surface soil. At sample

² Measured during the Expanded Site Inspection, October 1987 (E.C. Jordan, 1988).

³ In-situ conductivity measurement at MPT-2-P-5, February 1992.

⁴ in-situ conductivity measurement at MPT-2-MW18S, December 12, 1994.

		Organic #	Analytes D	Tal	Table 2-4 Organic Analytes Detected in Soil Samples at SWMU 26	amples	at SWMU	26				-
			Gro	ups I and U.S. N Mayp	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	eport						
Analytical Batch No.	ch No.:		21510		21510	0	21510	0	21510		21510	
Sample Matrix:	×		Soil		Soil		Soil		Soil		Soil	
Sample Location:	lion:		MPT-26-SS01	3501	MPT-26-S501	SS01	MPT-26-BS01	BS01	MPT-26-BS01	BS01	MPT-26-SS02	3802
Sample No.:			MPT26SS01	S01	MPT26SS01Dup	01Dup	MPT26BS11	3511	MPT26BS11Dup	11Dup	MPT26SS02	202
Date Sampled	75		04/21/92	76,	04/21/92	76,	04/21/92	/92	04/21/92	/92	04/21/92	92
Sample Depth (ft bls):	h (ft bis):		0 to 0.5	κύ	0 to 0.5	1.5	4 to 4.5	1.5	4 to 4.5	5.5	0 to 0.5	ıči
CAS RN	Common Name	Units	Conc.	Qual.	Conc.	Oual.	Conc.	Qual.	Conc.	Oral.	Conc.	Qual.
	Volatile Organics						-	-				
67-66-3	Chloroform	μg/kg	ŀ	1	:		ŀ		ιo	7	ı	
78-93-3	2-Butanone	µg/kg	1	:	ဖ	¬	o	7	1 0		1	-
108-88-3	Toluene	ид/ка	•	1	1		1		1		1	
1330-20-7	Xylene	µ9/kg	ဧ	ے	8	7	;		ı		:	
75-05-8	Acetonitrile	µg/kg	ı	ı	1		1		1		ŀ	
	Semivolatile Organice						•			,	,	•
84-74-2	Di-n-butylphthalate	µg/kg	t	1	₽	7	1		<u>.</u>		24	- ,
117-81-7	bis(2-Ethylhexyl)phthalate	ид/ка	;	-	,		1		42	_	38	٦
See notes at end of table.	end of table.											

			Organic	T Analytes	rable 2-4 Detecter	Table 2-4 (Continued) Organic Analytes Detected in Soil Samples at SWMU 26	ed) amples	at SWMU	56				
				g	roups I and U.S. N Mayo	Groups I and II RFA SV Report U.S. Naval Station Mavport, Florida	leport						
		+ NE.		21510		21510		21510	0	21510		21510	0
- A	Analytical Batch No.:	Ion No.:		Soil		Soil	• 1	Soil	_	Soll		Soll	
Sa.	Sample Matrix: Sample Location:	.: 	-	MPT-26-BS22	BS22	MPT-26-SS3	SS3	MPT-26-BS3	-BS3	MPT-26-SS4	-SS4	MPT-26-BS4	-BS4
Š (MPT26BS12	3812	MPT26SS03	S03	MPT26BS13	8513	MPT26SS04	S04	MPT26BS14	9514
E C	Sample No.: Date Sampled:	÷		04/21/92	76/	04/21/92	/92	04/21/92	/92	04/21/92	/92	04/21/92	/92
Š (4 to 4.5	5:	0 to 1.5	πċ	4 to 4.5	4.5	0 to 1.5	5.	4 to 4.5	4.5
S S	Sample Deptin (it bis):	In (It Dis):	Units	Cone.	Qual	Conc.	Qual.	Cone.	Qual.	Conc.	Oual.	Conc.	Qual.
5	N C C C C C C C C C C C C C C C C C C C	School Action											
	,		()			ŀ		;		1		1	
67.	67-66-3	Chloroform	70/kg	:						1		Ξ	
78	78-93-3	2-Butanone	ng/kg	۷_	-	(o	,	:		,	_	: 1	
<u> </u>	108-88-3	Toluene	p/g/kg	1		1		1	•	- '	- c		
13	1330-20-7	Xylene	µg/kg	1		-	י	α	¬ -	n ;	, -	4 6	, -
75	75-05-8	Acetonitrile	µg/kg	ı		1		ଷ	¬ 	* 7	,	5	
		Semivolatile Organics	_	<u>.</u>					,		_	<u></u>	
<u></u>	84-74-2	Di-n-butylphthalate	µ9/kg	43	<u>-</u>	69	っ	54	<u>-</u>	64 -	· ·	3	-
_=	117-81-7	bis(2-Ethylhexyl)phthalate	μg/kg	;	_	94	<u>-</u>			38	-		
Ž	Notes: Lab	% 2 % 8	il Energy and riconmental s in feet below n.	d Environmen ample. land surface.	tal Suppor	Il Energy and Environmental Support Activity (NEESA) Level C. rironmental sample. In feet below land surface. Th.	ESA) Level	<u>ن</u>					
ل													

		Inorg	anic Ana	lytes De	Table 2-5 Inorganic Analytes Detected in Soil Samples at SWMU 26	2-5 ı Soil Sar	nples at	SWMU 2	9			
				Group	Groups I and II RFA SV Report U.S. Naval Station Mayport, Fiorida	FA SV Repc Station Torida	Ħ					
Analytical Batch No.:	ch No.:		21510	2	21510	10	21510	9.5	21510		21510	1 0
Sample Matrix:	¥		Soil		Soil		Soil	·	Soil		Soll	
Sample Location:	lion:		MPT-26-SS01	-SS01	MPT-26-SS01	-8801	MPT-26-BS01	3-BS01	MPT-26-BS01	-BS01	MPT-26-SS02	-8802
Samole No.:			MPT26SS01	SS01	MPT26SS01Dup	S01Dup	MPT26BS11	3BS11	MPT26BS11Dup	S11Dup	MPT26SS02	SS02
Date Sampled:	Ť		04/21/92	/92	04/21/92	1/92	04/21/92	1/92	02/21/92	1/92	04/21/92	76/1
Sample Depth (ft bis):	h (ft bls):		0 to 1.5	1.5	0 to 1.5	1.5	4 to	4 to 4.5	4 to 4.5	4.5	4 to 4.5	4.5
CAS BN	Common Name	Units	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Oual.
7440-38-2	Arsenic	mg/kg	0.68	7	0.57	٦	0.74	- 7	0.57	77	0.76	ָּד
7440-39-3	Barinm	mg/kg	4.5	7	6.3	ה	4.7	7	4.1	7	3,4	ت.
7440-41-7	Beryllium	mg/kg	0.11	7	0.11	7	0.11	7	I		0.11	7
7440-47-3	Chromium	mg/kg	3.9		4.1		2.5	7	1.8	ה	2.7	
7440-48-4	Cobalt	mg/kg	i		1		t		ł		1	
7440-50-8	Capper	mg/kg	8.8		5.0	7	4. 10.	7	£.	¬	7.4	
7440-92-1	Lead	mg/kg	ı		:		1		1		;	
7440-02-0	Nickel	mg/kg	6.8	<u>,</u>	4.8	٦	2.3	ר	:		4.2	- ·
7440-62-2	Vanadium	mg/kg	6	7	3.7	7	1.7	ר	1.0	<u> </u>	5. 4.	<u>-</u>
7440-66-6	Zinc	mg/kg	29.7	-,	14.3	- -	15.4	2	3.8	¬	19,4	¬
5955-70-0	Cyanide	mg/kg	1.3		1.7		0.25	٦	0.21	-	:	
See notes at	See notes at end of table.											

		lnori	Table 2-5 (Continued) Inorganic Analytes Detected in Soil Samples at SWMU 26	Table rtes Det	Table 2-5 (Continued) s Detected in Soil San	tinued) oil Samp	les at SW	MU 26	•			
				Groups	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	SV Report ttion ida	l					
1000			21510		21510	0	21510	0	21510		21510	<u> </u>
Analytical Batch Ivo	.: 02		Soil		Soll	_	Soil		Soll		Soll	
Sample Matrix:			MPT-26-BS02	205	MPT-26-SS03	.SS03	MPT-26-BS03	BS03	MPT-26-SS04	504	MPT-26-BS04	BS04
Campio Coard			MPT26BS12	S12	MPT26SS03	SS03	MPT26BS13	3S13	MPT26SS04	S04	MPT26BS14	BS14
Sample No			04/21/92	35	04/21/92	/92	02/21/92	76/	04/21/92	35	04/21/92	/92
	<u> </u>		4 to 4.5	£.	0 to 1.5	5.	4 to 4.5	5.	0 to 1.5	5	4 to 4.5	4.5
Sample Deptil (II DIS)	(SIG)			300	2000	Oual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
CAS RN	Common Name	URIS	Collec	-	90 0	-	1.1	7	1.6	ſ	2	
7440-38-2	Arsenic	mg/kg	0.67	,	98:0	, -		, -	a.	7	o	7
7440-39-3	Barium	mg/kg	2.2	-	2.7	ت	R.Y	, .	i 6	, -	2	-
7440-41-7	Beryllium	mg/kg	0.07	7	0.13	-, 	0.1	- -	0.33	3	3 ;	,
7440-47-3	Chromium	mg/kg	2.6		3.4		2.8		89		4.7	
7440 49.4	Cobalt	mg/kg	1		1	_	1		4.4	-	-	- -
7440-60-B	Copper	mg/kg	1.3	٦	4.6	¬	6. 6.	7	7.0		3.4	¬
0.00.00	in debt	mo/ko	1		,		1		4.6	٦	3,5	<u>-</u>
7440-92-1	nean .	6 (A)	; 		9.1	_	3.3	,	4.4	7	3.7	¬
7440-02-0	Nickel	64/6m	6	 	2.4		2.6	ſ	8.6	٦,	6.3	ר
7440-62-2	Vanadium	Su/Su	, «	· -	15.3		10.2	7	17.5	<u> </u>	12.5	7
7440-66-6	Zinc	5y/Bills	26	·					1.6		ლ	
5955-70-0	Cyanide	mg/kg	,		-		١					
Notes: Laborat	Laboratory data validated at Naval Energy and Enviro	Naval Energ	Energy and Environmental Support Activity (NEESA) Level C. onnental sample.	mental Su	ipport Activity	, (NEESA) L	evel C.		·			
= Squ H	Sunx Dup = duplicate of the sun surface it bis = sample collection depth in feet below land surface	epth in feet b	elow land sur	ace.								
Conc.	Conc. = concentration.											
mg/kg	mg/kg = milligrams per kilogram	ogram.										
	"J" = estimated value.											
UB " "	 analyte not detected. 											

		Chemica	cals of Potenti	Table 2-6 Is of Potential Concern (CPCs) in Surface Soil at SWMU 26	2-6 PCs) in Suri	ace Soil at S	WMU 26			
				Groups I and It RFA SV Report U.S. Naval Station Mayport, Florida	RA SV Report Station Florida					
Analyte	Frequency of Detection'	Range of Reporting Limits	Range of Detected Concentrations ²	Mean of Detected Concentrations ³	Background Screening Value⁴	Risk Based Screening Concentration ⁵	Superfund Proposed Soil Screening Levets [®]	Cleanup Goals for the Military Sites In Florida	Analyte CPC? (Yes/No)	Reason
Volatiles (µg/kg)							;	;	;	
Acetonitrile	1/4	110 to 120	24	24	9	47,000	¥ Z	ď Ž	2	י מ
2-Butanone	2/4	12 to 14	ဖ	မ	9	4,700,00	¥	2,500,000	2	S, P, G
Tollsene	1/4	5 to 6	-	-	2	1,600,000	16,000,000	270,000	2	S, P, G
Xylene	3/4	6 to 6	1 to 5	2.8	Ø	16,000,000	160,000,000	6,400,000	Š	S, P,G
Semivoletiles (µg/kg)										1
Di-n-butylohthalate	4/4	Ä	54 to 220	102	Q	780,000	7,800,000	7,500,000	2	S, P, G
bis(2-Ethylhexyl) phthalate	3/4	390 to 780	38 to 94	56.7	2	46,000	46,000	45,000	£	လ် ရ
Pesticides/PCBs (µg/kg)	. B									
No analytes detected										
Inorganics (mg/kg)						ć	,	Š	,	
Arsenic	4/4	띰	0.63 to 1.6	96.0	2	0.37	0.4) O	2 <u>1</u>	6
Barium	4/4	Æ	2.7 to B.2	<u>4</u>	2.8	550	5,500	2,000	2 ;	ອ ນັ
Beryllium	4/4	R.	0.11 to 0.33	0.17	0.16	0.15	-	o.	¥es	1
Chromium	4/4	뛴	2.7 to 8.2	4.6	1.3	6E ₀ ,	390	150	2	လ် ရှိ
Cobalt	1/4	0.75 to 0.84	4.1	4.	2	470	V	4,700	Ž	တ တ်
Copper	4/4	ŭ Ž	4.6 to 7.4	6.5	-	290	¥ V	2,900	ž	S, P,G
Dra -	1/4	2,5 to 2.8	4.6	4.6	Q	1,400	11400	200	£	S, P,G
N. S.	4/4	또	2.4 to 5.8	6 6	2	160	1,600	1,500	£	S, P, G
Vanadium	4/4	£	2.4 to 8.6	ĸ	8	55	220	480	ž	S, P, G
Zinc	4/4	Ë	15.3 to 22	18.6	1.3	2,300	23,000	23,300	Š	S, P, G
Ovanide	2/4	0.19 to 0.21	1.5 to 1.6	1.6	Q.	160	1,600	1,600	ž	S, P, G
See notes on next page	<u>9</u>									

Chemicals of Potential Concern (CPCs) in Surface Soil at SWMU 26 Table 2-6 (Continued)

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

Votes from previous pages.

Value indicated by asterisk is the average of a sample and its duplicate. For duplicate samples having one nondetected value, 1/2 the contract required quantitation Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected values).

limit or contract required detection limit (CRDL) is used as a surrogate.

The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected including values qualified as "J"; it does not include The background screening value is twice the average of detected concentrations for inorganic analytes in background samples. Organic values are one times the those samples where the analyte was not detected ("U," or "UJ" qualifiers) and rejected ("R" qualifier).

mean of detected concentration. Organic values are included for comparison purposes only.

based concentrations (RBC) for residential surface soil exposure per January 1993 guidance (Selecting Exposure Routes and Contaminants of Concern by Risk-Based Source: USEPA. December, 1994. Soil Screening Guidance, Review Draft, USEPA, Office of Solid Waste and Emergency Response, Washington, D.C., EPA/540/R-Screening, EPA/903/R-93-001) was used for screening. Actual values are taken from the USEPA Region III risk based concentration tables dated February 9, 1995, For all chemicals except the essential nutrients (calcium, fron, magnesium, potassium, and sodium), U.S. Environmental Protection Agency (USEPA) Region III risk and are based on a cancer risk of 10° and an adjusted hazard quotient of 0.1. For the essential nutrients, screening values were derived based on recommended

Values are taken from the Florida Department of Environmental Protection memorandum, Cleanup Goats for Military Sites in Florida, dated April 5, 1995. The values

are for the aggregate resident based on a cancer risk of 10° and the child resident based on a hazard quotient of 1.

Analytes were included or excluded from the risk assessment for the following reasons:

S = the maximum detected concentration did not exceed the screening concentration and will not be considered further.

G = the maximum detected concentration did not exceed the Florida cleanup goals and will not be considered further.

B = the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at background locations.

F = the frequency of detection was less than 5 percent and professional judgment was used to exclude analyte from further study.

C = the analyte is a member of a chemical class that contains other chemicals of potential concern (CPCs) (i.e., carcinogenic polynuclear aromatic

P = the maximum detected concentration did not exceed the USEPA proposed soil screening levels (SSLs), 9355.4-14FS, dated December 1994. M = the analyte was detected at less than 5 percent and is a CPC in more than one media. hydrocarbons [PAHs]).

11 USEPA Office of Solid Waste and Emergency Response (OSWER) Directive No. 9355.4-12 revised interim recommended soll cleanup for Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and RCRA sites. 10 The value is based on chromium hexavalent form. The value is based on arsenic as a carcinogen.

The average of a sample and its duplicate is used for all table calculations. Notes:

Background sample locations include: MPT-B-SS1, MPT-B-SS2, MPT-B-SS3, MPT-B-SS4, MPT-B-SS5, and MPT-B-SS6. Sample locations include: 26SS01, 26SS02, 26SS03, and 26SS04. Duplicate background sample location includes; MPT-B-SS1DUP,

µg/kg = micrograms per kilograms. ND = not detected in any background samples. NA = not available.

reporting limits are same as range of detected concentrations. NR = not reported; analyte detected in each sample; mg/kg = milligrams per kilograms. PCBs = polychlorinated biphenyls.

		Chemicals o	Table 2-7 Chemicals of Potential Concern (CPCs) in Subsurface Soil Samples at SWMU 26	Table 2-7	2-7 n Subsurfac	e Soil Samp	les at SWMU	26		
				Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	4FA SV Report Station Florida					
Analyte	Frequency of Detection	Range of Reporting Limits	Range of Detected Concentrations ²	Mean of Detected Concentrations ³	Background Screening Value ⁴	Risk Based Screening Concentration ⁵	Superfund Proposed Soil Screening Levels ⁶	Cleanup Goals for the Military Sites In Florida ⁷	Analyte CPC? (Yes/No)	Reason
Volatiles (µg/kg)										
Acetonitrile	2/4	120 to 130	22 to 24	æ	2	47,000	NA V	N A	Š	s
2-Butanone	3/4	Ŧ	7 to 12	10	2	4,700,000	Ϋ́	17,000,000	2	S, P, G
Chloroform	1/4	5 to 6	ĸ	ĸ	2	10,000	110,000	400	욷	S, P, G
Xylene	2/4	6 to 6	CI	2	9	16,000,000	160,000,000	44,000,000	S S	S, P, G
Semivolatiles (µg/kg)										
Di-n-butylphthalate	4/4	R E	43 to 108	29	ᄝ	780,000	7,800,000	150,000,000	욷	လ ရ ရ
bis (2-Ethylhexyl) pht- halate	1/4	380 to 410	104	104	Š	46,000	46,000	200	8	လ ဂ ဂ
Pesticides/PCBs (µg/kg)										·
None			٠							
Inorganics (mg/kg)								,	:	
Arsenic	4/4	R	0.66 - 2	Ξ	6'0	*0.37	4.0	m	¥ 9 3	1
Barium	4/4	R	2.2 - 9	9.4	7.2	920	5,500	74,000	욷	လ ရ ၁
Beryllium	4/4	¥	0.07 - 0.23	0.12	0.14	0,15	0.1	0.2	∀ 08	,
Chromium	4/4	ĸ	2.2 - 7.4	3.8	3.4	¹⁰ 39	390	10220	2	S, P, G
Cobalt	1/4	0.75 to 0.89	1.4	1.4	1.04	470	¥ Z	110,000	Š	တ တ
Copper	4/4	뜅	1.3 to 3.9	2.9	3.6	290	¥ X	72,000	Ş	o O
Lead	1/4	1 to 2.2	3.5 to 3.5	3.5	2.8	11400	11400	1,000	2	S, P, G
Nicke	3/4	0.94	1,4 to 3.7	2.8	Q	160	1,600	11,000	2	S, P, G
Vanadium	4/4	Æ	1.4 to 6.3	3.2	3.2	32	250	4,800	Ş	S, P _. G
Zinc	4/4	Æ	9,6 to 12.5	10.5	4.8	2,300	23,000	552,000	2	S, P, G
Cyanide	2/4	0.22	0.23 to 3	8:	0.66	160	1600	40,000	£	S, P, G
See notes on next page	ge.									

Chemicals of Potential Concern (CPCs) in Subsurface Soil Samples at SWMU 26 Table 2-7 (Continued)

Groups I and II RFA SV Report U.S. Naval Station

				Maypon, Florida						
							Superfund	Cleanup	Anslyte	
	Continue	Banne of	Range of	Mean of	Background		Proposed Soil Goals for the	Goals for the	CPC	Reason
4	riedaensy	Reporting	Detected	Detected	Screening	Screening	Screening	Screening Military Sites (Nes/No)	(oN/sex	
Analyte	Defection	Limits	Concentrations ²	Concentrations ² Concentrations ³	Value	Concentration	Levels	in Florida7	(100)	
		i						(political policies and	todi tralino	

Value indicated by asterisk is the average of a sample and its duplicate. For duplicate samples having one nondetected values, 1/2 the contract required quantitation Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected values).

limit or contract required detection limit (CRDL) is used as a surrogate.

The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected, including value qualified as "J"; it does not include those

samples where the analyte was not detected ("U," or "UJ" qualitiers) and rejected ("R" qualifier).

For all chemicals except the essential nutrients (calcium, iron, magnesium, potassium, and sodium), U.S. Environmental Protection Agency (USEPA) Region III risk based The background screening value is twice the average of detected concentrations for inorganic analytes in background samples. Organic values are one times the mean of detected concentration. Organic values are included for comparison purposes only.

concentrations (RBC) for residential surface soil exposure per January 1993 guidance (Selecting Exposure Routes and Contaminants of Concern by Risk-Based Screening, EPA/903/R-93-001) was used for screening. Actual values are taken from the USEPA Region III RBC tables dated February 9, 1995, and are based on a cancer risk of 10° and an adjusted hazard quotient of 0.1. For the essential nutrients, screening values were derived based on recommended daily allowances (RDAs).

values are taken from the Florida Department of Environmental Protection memorandum, Cleanup Goals for Military Sites in Florida, dated April, 5, 1995. The values are Source: USEPA, December, 1994. Soil Screening Guidance, Review Draff, USEPA, Office of Solid Waste and Emergency Response, Washington, D.C., EPA/540/R-

for the Industrial Worker based on a cancer risk of 10° and the general worker based on a hazard quotient of 1.

Analytes were included or excluded from the risk assessment for the following reasons:

S = the maximum detected concentration did not exceed the screening concentration and will not be considered further.

G = the maximum detected concentration did not exceed the Florida cleanup goals and will not be considered further.

B = the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at background locations.

C = the analyte is a member of a chemical class that contains other chemicals of potential concern (CPCs) (i.e., carcinogenic polynuclear aromatic hydrocarbons F = the frequency of detection was less than 5 percent and professional judgment was used to exclude analyte from further study.

P = the maximum detected concentration did not exceed the USEPA proposed soil screening levels (SSLs), 9355.4-14FS, dated December 1994. M = the analyte was detected at less than 5 percent and is a CPC in more than one media.

* The value is based on arsenic as a carcinogen.

11 USEPA Office of Solid Waste and Emergency Response (OSWER) Directive No. 9355.4-12 revised interim recommended soll cleanup for Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Resource Conservation and Recovery Act (RCRA) sites.

The average of a sample and its duplicate is used for all table calculations. Sample tocations include: 26BS11; 26BS12; 26BS13; 26BS14 Notes:

Duplicate sample locations include: 26BS11D

mg/kg = milligrams per kilograms. PCBs = polychlorinated biphenyls. Background sample locations include: MPT-B-BS1; MPT-B-BS4; MPT-B-BS5; 1833X Duplicate background sample locations include: MPT-B-BS1DUP

ND = not detected in any background samples.

= not reported; analyte detected in each sample; reporting limits are same as range of detected concentrations. = not available.

locations MPT-26-SS/BS01 and MPT-26-SS/BS04, the tan sand graded with depth into a gray to dark gray clayey sand at approximately 1.5 feet bls.

Four VOCs (2-butanone, toluene, xylene, and acetonitrile) were detected in the surface soil samples (Table 2-4). Two SVOCs (di-n-butylphthalate and bis(2-ethylhexyl)phthalate) were detected in the surface soil samples. These same analytes and the VOC chloroform were detected in the subsurface soil samples. Pesticides and PCBs were not detected in the surface or subsurface soil samples.

Inorganic target analytes detected in the surface and subsurface soil samples consisted of arsenic, barium, beryllium, chromium, cobalt, copper, lead, nickel, vanadium, zinc, and cyanide (Table 2-5).

Groundwater Analytical Results. A summary of groundwater quality parameters is provided in Table 2-8 and Tables 2-9 and 2-10 summarize the validated analytical results for semivolatile and inorganic target analytes, respectively, detected in groundwater samples collected at SWMU 26. Complete analytical results are presented in Appendix B. A summary of frequencies of detection, range of detection limits, range of detected concentrations, arithmetic mean, and bench mark comparison values are provided in Table 2-11. The target analytes detected in the environmental samples were compared to background screening values computed from station-wide background groundwater samples (ABB-ES, 1995b), and bench mark values consisting of USEPA Region III RBCs (USEPA, 1995), and Florida groundwater guidance concentrations (FDEP, 1994). The Florida groundwater guidance concentrations consist of promulgated and unpromulgated values. State of Florida promulgated values are equal or more stringent than Federal primary and secondary drinking water regulations (57FR31777, July 17, 1992). Promulgated values that are exceeded will be identified in the text.

Each of the bench mark criteria provided in Table 2-11 are human health based and represent the lower of either a noncarcinogenic hazard index (HI) of 1 or a lifetime excess cancer risk of 10^{-6} . Bench mark values for a noncarcinogenic HI of 1 or less represent a concentration where noncarcinogenic effects are not likely. A bench mark value for a lifetime excess cancer risk of 10^{-6} represents a chance of 1 in 1,000,000 for an adverse carcinogenic effect for a continuous lifetime exposure.

The water quality parameters for the SWMU 26 groundwater monitoring wells were compared to the State of Florida secondary water quality criteria (Florida Administrative Code, Chapter 62-550.320) (Table 2-8). Values determined for color and total dissolved solids exceeded the State of Florida secondary water quality criteria for three of the groundwater samples. The State of Florida secondary water quality criteria for pH was exceeded in the groundwater sample collected from monitoring well MPT-26-MW04S.

Values determined for hardness as $CaCo_3$ suggest that the groundwater would be considered very hard (greater than 180~mg/l; Durfor and Becker, 1964). The values determined for total dissolved solids suggest that the groundwater would be considered brackish to slightly saline. The range for classifying water as brackish is 1,000~to~10,000~mg/l and the range for classifying water as saline is 10,000~to~100,000~for saline (Freeze and Cherry, 1979).

VOCs, pesticides, PCBs, or cyanide (total) were not detected in the groundwater samples collected from the SWMU 26 monitoring wells. Target analytes detected

Table 2-8 Water Quality Parameters for Groundwater at SWMU 26

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

		Maypo	rt, Florida		
Analytical Batch No.:		M7505	M7515	M7492	
Sample Matrix:		Groundwater	Groundwater	Groundwater	
Sample Location:	l	MPT-26-MW01S	MPT-26-MW03	MPT-26-MW04	Secondary
Sample No.:		26MW0001S	26MW003S	26MW004S	Water Quality Criteria
Date Sampled:		08/02/94	08/02/94	08/02/94	
Common Name	Units	Conc.	Conc.	Conc.	Conc.
Alkalinity as CaCO ₃	mg/£	950	780	86 6	-
Ammonia nitrogen	mg/£	6.2	13.7	6.9	-
Chloride	mg/£	3,470	6,740	5,660	250,000
Color	APHA	70	50	50	15
Hardness as CaCO ₃	mg/#	1,530	2,030	1,890	-
Nitrate + nitrite nitrogen	mg/£	0.13	< 0.1	< 1	10,000
Oil and grease	mg/£	< 5	5.8	< 5	-
Phosphorous P, total	mg/ <i>2</i>	2.24	1.73	0.96	-
Sulfate	mg/ <i>t</i>	181	< 1	87.2	250,000
Sulfide	mg/ℓ	3.5	1	18.5	-
Total dissolved solids	mg/£	6,310	10,300	9,810	500
Total Kjeldahl nitrogen	mg/£	9.7	16.3	9.7	•••
Total organic carbon	mg/ℓ	20.6	28.2	20	-
рН	su	6.9	7	10.4	6.5 to 8.5

¹ Secondary water quality criteria, Chapter 62-550.320, Florida Administrative Code.

Notes: Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C.

Conc. = concentration. $CaCO_3$ = calcium carbonate.

 $cacO_3 = calcium carbonate$ $cacO_3 = calcium carbonate$ $cacO_3 = calcium carbonate$

- = analyte not detected.

APHA = American Public Health Association.

SU = standard units.

Table 2-9 Semivolatile Organic Analytes Detected in Groundwater Samples at SWMU 26

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

					<u>, </u>				_		
Analytical Batch N	lo.:	M7:	503	M7	503	M7:	503	M7	513	M7	490
Sample Matrix:		Groun	dwater	Groun	dwater	Groun	dwater	Ground	dwater	Groun	dwater
Sample Location:		MPT-26	-MW01S	MPT-26	-MW01S	MPT-26	-MW02\$	MPT-26	MW03S	MPT-26-	-MW045
Sample No.:		26MV	V00 1S	26MW0	01SDup	26MV	V002S	26MV	v003S	26MV	V004S
Date Sampled:		07/1	2/94	07/1	12/94	07/1	2/94	07/1	3/94	07/1	10/94
Common Name	Units	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
Di-n-butylph- thalate	µg/₽	-	-	-				2	J	_	
bis(2-ethyl- hexyl)phthalate	µg/₽	_				_		1	J	-	

Notes: Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C.

Suffix Dup = duplicate of environmental sample.

Conc. = concentration.
Qual. = qualifier.
"J" qualifier = value.

 $\mu g/t = micrograms per liter.$

- = analyte not detected.

		Inorg	ganic An	Table 2-10 norganic Analytes Detected in Groundwater Samples at SWMU 26	Table 2-10 ed in Ground	2-10 oundwater Sa	mples at	SWMU 26			
				Group	os Land # RFA SV F U.S. Naval Station Mayport, Florida	Groups I and it RFA SV Report U.S. Naval Station Mayport, Florida					
Analytical Batch No.:	h No.:	M7504		M7504	1	M7504		M7514		M7491	
		Groundwater	- i	Groundwater	ter	Groundwater	iter	Groundwater	ter	Groundwater	ter
Sample Matrix:	6	MPT-26-MW01S	018	MPT-26-MW01S	701S	MPT-26-MW02S	Vozs	26MW003S	8	26MW004S	જ
Sample No.:		26MW001S	S	26MW001SDup	dng	26MW002S	SS	MPT26SS04	94	MPT26BS14	4
Date Sampled:	.,	07/12/94	**	07/12/94	4	07/12/94	4	07/13/94	4	07/10/94	4
Common	Units	Conc.	Qual	Conc.	Qual.	Ćone.	Qual.	Conc.	Qual.	Conc.	Oual.
Antimony	1/6/	:		:		:		5.2		!	
Arsenic	1/6/	1.1	7	i		1		; ;	_	: 0	-
Barinm	1/6/	25.7	7	25.8	7	18.3	- -	.	٠ -	23.0	•
Calcium	1/6/1	246,000		267,000		183,000		113,000	<u>-</u>	224,000	-
Iron	- /g	89.8	ס	324	7	1,320	- ")	487	•		· .
Lead	1/6/	:		6.2		ı		2.2	כ	:: 000 000	
Magnesium	1/6/	186,000		180,000		154,000		355,000	_	330,000	
Manganese	1/6/	163		251	- >	313	-	016	י	2 1	
Selenium	1/6/	:		2.6	- -	1	·	: 000 300		3 240 000	
Sodium	1/6/	1,740,000	7	1,620,000		1,280,000	¬	326,000		2000	
Thallium	1/6/	4.1		1		ı		. 4	- ,	1	
Zinc	1/6ri	:				1	<u> </u>	°	,		
Notes: Labo Suffi	ratory data k Dup = Du	Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C. Suffix Dup = Duplicate of the environmental sample.	Energy ar	nd Environmental sample.	Support A	ctivity (NEESA) La	ට ව				
Contraction Contraction	Conc. = concentration.	ıtration.									
Qual	Qual = qualifier.	ب ا ن									
# 7/6rd	"J" = estimated value. µg/ℓ = micrograms p	f.g. = estimated value. pg/t = micrograms per liter.									
ii l	- = analyte not detected.	detected.									

		Chemicals	Table 2-11 s of Potential Concern (CPCs) in Groundwater at SWMU 26	Table 2-11 ern (CPCs) in G	roundwater a	t SWMU 26			
			Groups La U.S Ma	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	to				
Analyte	Frequency of Detection ¹	Range of Reporting Limits	Range of Detected Concentrations ²	Mean of Detected Concentrations ³	Background Screening Concentration ⁴	Risk Based Screening Concentration ⁵	Florida Guidance Concentration ^a	Analyte CPC? (Yes/No)	Reason ⁷
Volatiles (µg/!)									
No Analytes Detected									
Semivolatiles (µg/t)									
Disp-hutylohthalate	1/4	10 to 10	8	8	QN Q	370	200	2	တ တ
bis(2-Ethylhexyl)phthala	1/4	10 to 10	-	-	6.2	4.8	σ	S	o S
ł.									•
Pesticides/PCBs (µg/1)									
No Analytes Detected									
Inorganica (µg/f)				(2	<u>u</u>	ď	X 63	
Antimony	1/4	2.2 to 22.3	Si	S.	2	<u>.</u>	, <u>i</u>	2	a
Arsenic	1/4	0.45 to 0.9	0.775*	0.78	11.4	°0.038	Ā	€ :	٠ ,
Barium	4/4	AN AN	15 to 25.75*	20.7	10.4	260	2,000	ê :	တ် တ
Calcium	4/4	NR RN	113,000 to 256,500*	194,125	170,450	1,055,398	٩V	£	vo
Iron	4/4	R	44 to 1,320	514	2076	13,267	300	Yes	
Lead	2/4	2.2 to 2.9	2.2 to 4.275*	3.2	4	1015	1015	온	ပ တ
Magnesium	4/4	R.	154,000 to 355,000	255,500	21,234	118,807	Y	Yes	
Wandanese	4/4	Z.	207* to 313	261	185.8	18	20	Yes	
Salenium	1/4	6.6 to 13.2	4.6*	4.6	11.8	18	20	운	æ
Sodium	4/4	R	1,280,000 to 3,260,000 2,365,000	2,365,000	18,624	396,022	A S	Yes	
Thailium	1/4	0.65 to 1.3	1.025*	-	QV	10,29	۵.	Yes	
Zinc	1/4	4.2 to 7.3	S	2	20	1,100	2,000	₽	8
See notes on next page.									

Chemicals of Potential Concern (CPCs) in Groundwater at SWMU 26 (able 2-11 (Continued)

Groups I and II RFA SV Report U.S. Naval Station

	Analyte CPC? (Yes/No)
	sed Florida Analyte ng Guidance CPC? atton ⁵ Concentration ⁶ (Yes/No)
	Risk Based Screening Concentration ⁵
	Background Screening Concentration
Mayport, Florida	Mean of Background Risk Based Florida Analyte CPC? Concentrations Concentration Concentration (Yes/No)
	Range of Detected Concentrations ²
	Range of Reporting Limits
	Frequency of Detection

Analyte

Reason

Value indicated by asterisk is the average of a sample and its duplicate. For nondetected values, 1/2 the contract required quantitation limit or contract required Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected values)

The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected, including values qualified as "J"; it does not include those samples where the analyte was not detected ("U," or "UJ" qualifiers) and rejected ("R" qualifier).

For all chemicals except the essential nutrients (calcium, iron, magnesium, potassium, and sodium), U.S. Environmental Protection Agency (USEPA) Region III risk The background screening value is twice the average of detected concentrations for inorganic analytes in background samples.

based concentrations (RBC) for tap water per January 1993 guidance (Selecting Exposure Routes and Contaminants of Concern by Risk-Based Screening, EPA/903/R-93-001) was used for screening. Actual values are taken from RBC Table dated February 9, 1995, and are based on a cancer risk of 10° or an adjusted hazard quotient

of 0.1. For the essential nutrients, screening values were derived based on recommended daily allowances (RDAs). Florida Department of Environmental Protection Groundwater Guidance Concentrations (June 1994).

Analytes were included or excluded from the risk assessment for the following reasons:

C = the analyte is a member of a chemical class that contains other human health chemicals of potential concern (HHCPCs) (i.e., carcinogenic polynuclear S = the maximum detected concentration did not exceed the screening concentration and will not be considered further.

G = the maximum detected concentration did not exceed the Florida cleanup goals and will not be considered further.

B = the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at background locations.

F = the frequency of detection was less than 5 percent and professional judgment was used to exclude analyte from further study.

aromatic hydrocarbons [PAHs]).

P = the maximum detected concentration did not exceed the USEPA proposed soil screening levels (SSLs), 9355.4-14FS, dated December 1994 M = the analyte was detected at less than 5 percent and is a HHCPC in more than one media.

The value is based on arsenic as a carcinogen.

10 Treatment technology action limit for drinking water distribution systems per "National Primary Drinking Water Regulations" 40 CFR 141 as amended in 57 FR 41345,

August 3, 1993.

The values is based on thallium as thallium sulfate.

The average of a sample and its duplicate is used for all table calculations. Notes: Sample locations include: 26MW001S, 26MW002S, 26MW003S, and 26MW004S.

Background sample locations include: 01MW001, 08MW005S, 08MW001S, 0SMW001R, 8MW5S, MPT-1-MW1-1, MPT-S-1-1, and S1. Duplicate sample includes: 26MW001SD.

NA = not available

ND = not detected in any background samples.

PCBs = polychlorinated biphenyls.

 $\mu g/t=m$ icrograms per liter. NR = not reported; analyte detected in each sample; reporting limits are same as range of detected concentrations.

:		Inorgan	iic Analy	Table 2-12 Inorganic Analytes Detected in Groundwater Samples at SWMUs 2 and 3	Table 2-12 in Groundwa	2-12 idwater Samp	les at SV	VMUs 2 and 3			
				Group	os I and II RFA SV F U.S. Naval Station Mayport, Florida	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida					
Analytical Batch No.:	šh No.:	20866		R8229	 -	20877		R2818		R8607	-
Sample Matrix:		Groundwater	ter	Groundwater	ter	Groundwater	iter	Groundwater	iter	Groundwater	ıter
Sample Location:	on:	MPT-2-MW09S	S60	MPT-2-MW09S	S60	MPT-26-MW10S	V10S	MPT-2-MW10S	108	MPT-2-MW13S	138
Sample No.:		MPT2MW9S1)S1	2MW009S	S	MPT2MW101	101	02MW010S	S	2MW013S	S
Date Sampled:		02/09/92	2	06/21/94	4	02/10/92	23	07/13/94	4	08/24/94	4
Common	Units	Cone.	Qual.	Сопс.	Qual.	Cone.	Qual.	Cone.	Qual.	Conc.	Qual.
Antimony	1/6/	;		:		17.4	ſ	:		•	
Arsenic	1/6d	1		:		ιΩ	ר	ł		6.0	7
Barlum	1/6/	8.7	ה	8.5	י	29.1	7	25.2	ت	18.1	7
Calcium	1/6/	096'2		65,900		162,000		121,000		134,000	
lron	1/6#	162		655	7	474		230	->	448	
Lead	1/6/	4.8	7	t		1		!		ı	
Magnesium	1/6/	300,000		207,000		282,000		219,000		110,000	
Manganese	1/6/	101		85.3	7	102		96.5	-,	149	
Selanium	1/6/	ı		1		ı		l		:	
Sodium	1/8/	2,660,000		2,040,000		2,900,000		2,010,000		1,760,000	
Thallium	1/64	1		ı		1		i		:	
Zinc	1/8/1	1		39		4.1	7	1		2.4	-
Notes: Labor	Laboratory data validate Conc. = concentration.	Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C. Conc. = concentration.	Energy an	d Environmental	Support Ac	tivity (NEESA) Le	ပ <u>စ</u>				
Over	Qual. = qualifier	. !									
= f. 1/br/	"J" = estimated value. µg/t = micrograms p	f.g./ t = estimated value. µg/ t = micrograms per liter.									
3 = 1	= analyte not detected	detected.									

in the groundwater samples consist of two SVOCs (di-n-butylphthalate and bis(2-ethylhexyl)phthalate) and 12 inorganic analytes (antimony, arsenic, barium, calcium, iron, lead, magnesium, manganese, selenium, sodium, thallium, and zinc). The inorganic groundwater samples were not filtered and represent total concentrations.

2.4 PRELIMINARY RISK EVALUATION.

<u>Surface Soil</u>. None of the VOCs or SVOCs detected in the surface soil samples exceed the bench mark values (Table 2-6). Two of the inorganic analytes, arsenic and beryllium, were detected in surface soil samples at concentrations that exceed bench mark values, which are based on values for a lifetime excess cancer risk of 10^{-6} .

Each of the four surface soil samples contained arsenic at concentrations that exceed the USEPA Region III RBC (0.37~mg/kg) and the proposed Superfund SSL (0.4~mg/kg). Three of the samples contained arsenic at concentrations that exceed the FDEP cleanup goal (0.7~mg/kg). The different bench mark values are a result of variations in assumptions used in the computations. Arsenic was not detected in background surface soil samples.

Only one of the samples (MPT-26-SS04) contained beryllium at a concentration (0.33~mg/kg) higher than the background screening value (0.16~mg/kg) and the USEPA Region III RBC (0.15~mg/kg). Each of the four surface soil samples contained beryllium at concentrations that exceed the proposed Superfund SSL and Florida cleanup goal of 0.1~mg/kg. The surface soil background screening value for beryllium also exceeds the bench mark values.

Subsurface Soil. None of the VOCs or SVOCs detected in the subsurface soil samples exceed the bench mark values (Table 2-7). Two of the inorganic analytes, arsenic and beryllium, were detected in subsurface soil samples at concentrations that exceed bench mark values. Only one of four subsurface soil samples (MPT-26-SSO4) contained arsenic at a concentration (1.6 mg/kg) that exceeds the background screening value (0.9 mg/kg). Each of the four subsurface soil samples contained arsenic at concentrations that exceed the USEPA Region III RBC (0.37 mg/kg) and the proposed Superfund SSL (0.4 mg/kg). None of the samples contained arsenic at concentrations that exceed the FDEP cleanup goal (3 mg/kg). The background screening value for arsenic also exceeds the USEPA Region III RBC and the proposed Superfund SSL, but not the FDEP cleanup goal.

Only one of the four subsurface soil samples (MPT-26-BS04) contained concentrations of beryllium (0.23 mg/kg) that exceed the background screening value (0.14 mg/kg) and USEPA Region III RBC (0.15 mg/kg). Each of the four subsurface soil samples contained beryllium at concentrations that exceed the proposed Superfund SSL (0.1 mg/kg). Only one sample contained concentrations of beryllium above the FDEP cleanup goal of (0.2 mg/kg). The background screening value for beryllium exceeds the proposed Superfund SSL and FDEP cleanup goal, but not the USEPA Region III RBC.

Groundwater. None of the SVOCs (phthalates) detected in groundwater samples collected from SWMU 26 monitoring wells exceed the bench mark values (Table 2-11). However, five of the inorganic analytes (antimony, magnesium, manganese, sodium, and thallium) exceed bench mark values. Antimony was detected as a

single occurrence at a concentration (5.2 μ g/ ℓ) that exceeds the USEPA Region III RBC (1.5 μ g/ ℓ), but was less than the Florida guidance concentration (6 μ g/ ℓ), which is a Federal and State promulgated standard.

Magnesium was detected in each of the four SWMU 26 groundwater samples and duplicate at concentrations that exceed the USEPA Region III RBC (118,807 $\mu g/l$). Currently, there is not an established Florida guidance concentration for magnesium.

Manganese was detected in each of the four SWMU 26 groundwater samples and duplicate at concentrations that exceed the USEPA Region III RBC (18 $\mu g/l$) and the Florida guidance concentration (50 $\mu g/l$).

Sodium was detected in each of the four SWMU 26 groundwater samples and the duplicate. Three of the groundwater samples and the duplicate contained concentrations of sodium that exceed the USEPA Region III RBC (396,022 $\mu g/\ell$). Currently, there is not an established Florida guidance concentration for sodium.

Thallium was detected as a single occurrence at a concentration (1.4 $\mu g/l$) that exceeds the USEPA Region III RBC (0.29 $\mu g/l$), but did not exceed the Florida guidance concentration (2 $\mu g/l$), which is a Federal and State promulgated standard.

Groundwater samples collected from three monitoring wells (MPT-2-MW09S, MPT-2-MW10S, and MPT-2-MW13S) located hydraulically upgradient from SWMU 26 (Figure 2-2) also contained antimony, magnesium, manganese, and sodium (Table 2-12). Thallium was not detected in the groundwater samples collected from the three upgradient monitoring wells (MPT-2-MW09S, MPT-2-MW10S, and MPT-2-MW13S). concentrations of the four inorganic analytes (antimony, magnesium, manganese, and sodium) in the upgradient wells also exceed the same bench mark values as the SWMU 26 groundwater samples. SWMU 26 does not appear to be the source of antimony, magnesium, manganese, or sodium at the concentrations detected in the It is more likely that these analytes are related to groundwater samples. placing the slurry of dredge materials and sea or brackish water into the eastern dredge spoil basin (SWMU 50) during maintenance dredging of the Mayport Turning Basin or the leaching of metals from landfill SWMUs 2 and 3. The eastern dredge spoil basin (SWMU 50) and landfill SWMUs 2 and 3 are located approximately 600 feet hydraulically upgradient of SWMU 26.

2.5 CONCLUSIONS AND RECOMMENDATIONS.

2.5.1 Conclusions

Surface and Subsurface Soil. Concentrations of VOCs (acetonitrile, chloroform, 2-butanone, toluene, and xylenes), SVOCs (di-n-butylphthalate and bis(2-ethyl-hexyl)phthalate), metals (arsenic, barium, beryllium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc) and cyanide were detected in surface and subsurface soil samples collected at SWMU 26 (Tables 2-4 and 2-5). Pesticides and PCBs were not detected in the surface and subsurface soil samples. The detected concentrations of VOCs and SVOCs do not exceed any of the human health based risk screening values and, therefore, do not warrant further investigation (Tables 2-6 and 2-7). Concentrations of arsenic and beryllium exceed human health based risk bench mark values that represent a lifetime excess cancer risk

of 10^{-6} . Arsenic, though not detected in the background surface soil samples, was detected in the background subsurface soil samples and beryllium was detected in both the surface and subsurface background soil samples. Background screening values for these analytes also exceed one or more of the bench mark values. It should also be noted that beryllium was not detected in the groundwater samples and arsenic was detected as a single occurrence in the groundwater samples and not determined to be a CPC. However, the potential risk associated with concentrations of arsenic and beryllium that were detected is within a range $(10^{-4} \text{ to } 10^{-6})$ that is considered by the USEPA to be protective of human health (40 CFR Part 300) (see Tables C-1 and C-2, Appendix C).

Because the land features at NAVSTA Mayport are a result of the deposition of dredge material from the Mayport Turning Basin, it cannot be determined whether the concentrations of arsenic and beryllium are related to a release at SWMU 26, or are residual concentrations from the dredge material.

Groundwater. VOCs, pesticides, PCBs, or cyanide were not detected in the groundwater samples collected from the SWMU 26 monitoring wells. Target analytes detected in the groundwater samples collected from SWMU 26 consist of two SVOCs (di-n-butylphthalate and bis(2-ethylhexyl)phthalate) and 12 metals (antimony, arsenic, barium, calcium, iron, lead, magnesium, manganese, selenium, sodium, thallium, and zinc) (Tables 2-9 and 2-10). None of the phthalates detected in the SWMU 26 groundwater samples exceed the bench mark values (Table 2-11). However, five of the inorganic analytes (antimony, magnesium, manganese, sodium, and thallium) were detected at concentrations that exceed bench mark values. The State of Florida promulgated water quality standard for manganese also was exceeded. Thallium was detected at a concentration that was less than the FDEP guidance concentration.

Groundwater samples collected from three monitoring wells (MPT-2-MW09S, MPT-2-MW10S, and MPT-2-MW13S) located hydraulically upgradient from SWMU 26 (Figure 2-2) also contained concentrations of antimony, magnesium, manganese, and sodium (Table 2-12). Thallium was not detected in these groundwater samples. The concentrations of the four inorganic analytes (antimony, magnesium, manganese, and sodium) also exceed the same bench mark values as the SWMU 26 groundwater samples. It is likely that these analytes are related to placing the dredge materials into the eastern dredge spoil basin (SWMU 50) during maintenance dredging of the Mayport Turning Basin or the leaching of metals from landfill SWMUs 2 and 3.

- 2.5.2 Recommendations SWMU 26 is recommended for no further investigation at this time based on the following rationale.
- Anecdotal evidence suggests only inert construction materials were disposed at SWMU 26.
- No pesticides or PCBs were detected in the surface or subsurface soil samples at SWMU 26.
- VOCs (acetonitrile, chloroform, 2-butanone, toluene, and xylenes) and SVOCs (di-n-butylphthalate and bis(2-ethylhexyl)phthalate) were detected in surface and subsurface soil samples at concentrations less than the human health based bench mark values.

- Inorganic analytes (arsenic and beryllium) were detected in soil samples at concentrations within a range of potential risk (10⁻⁴ to 10⁻⁶) considered by the USEPA as protective of human health (40 CFR Part 300). Arsenic and beryllium were not determined to be CPCs in the groundwater.
- Inorganic analytes detected in the surface and subsurface soil samples are likely related to the deposition of dredge spoil material, and may not represent disposal of hazardous materials.
- VOCs, pesticides, PCBs, or cyanide were not detected in the groundwater samples collected from the SWMU 26 monitoring wells.
- The two phthalate compounds (di-n-butylphthalate, and bis(2-ethylhexyl)-phthalate) detected in the SWMU 26 groundwater samples do not exceed the human health based bench mark values.
- SWMU 26 does not appear to be the source of the four inorganic analytes (antimony, magnesium, manganese, sodium, and thallium) that were detected at concentrations exceeding some of the human health bench mark values. In addition, groundwater in the vicinity of SWMU 26 is being assessed in the RFI for the Group I SWMUs.

The default assumptions used in estimating risk based bench mark concentrations may not be representative and likely to overstate the specific exposure present at the site (i.e., underestimate the concentration that would result in a lifetime excess cancer risk of 10^{-6}). Because the chemicals were detected in only one of two media (i.e., soil and or groundwater) all of the exposure pathways and assumptions used to estimate the bench mark concentrations are not relevant. Therefore, the concentrations of chemicals may exceed the bench mark values (USEPA, 1994, USEPA, 1995, and FDEP, 1995) but actually result in lower excess cancer risk than 10^{-6} .

3.0 SWMU 49. FLIGHT LINE RETENTION PONDS

3.1 SITE DESCRIPTION AND BACKGROUND. The Flight Line Retention Ponds (SWMU 49) are located approximately 1,000 feet north of the eastern dredge spoil disposal area (SWMU 50) (Figure 1-3). SWMU 49 consists of two ponds located on the north side of the Patrol Road and to the south of an aircraft wash rack (Building The ponds were constructed at the same time that the flight operation facilities were constructed in 1985 (A.T. Kearney, 1989). The land use of the watershed above the Flight Line Retention Pond is highly developed with hangars, flight line aprons, aircraft maintenance facilities, administrative buildings, roadways, and parking lots. Much of this watershed is covered with impervious materials and substantial runoff is likely to be generated during rain events. The retention ponds were constructed to manage runoff and mitigate adverse effects, if any, from runoff received from developed areas in the drainage of the The western retention pond is located within a Flight Line Retention Ponds. fenced area and is not accessible for recreational use. The eastern pond is not fenced and is too small to be viable for recreational fishing.

SWMU 49 collects runoff from the flight operations area southeast of the main runway through a conveyance system of underground stormwater collection conduits and associated drains and open ditches. The watershed that drains into the ponds includes the aircraft parking apron, taxiways, wash racks, Building 1552, vehicle roadways, and parking lots (Figure 3-1). Both ponds are excavated from land surface to a depth of approximately 2 feet below mean sea level (msl).

The eastern pond is approximately 9,000 square feet in area. Three stormwater sewer influent points are located at the eastern pond. Two of the stormwater influent points are located on the north side of the pond and serve two adjacent automobile parking lots and adjacent landscaped areas. These two stormwater culverts are 24 and 36 inches in diameter. A third stormwater influent point is located on the southeast side of the pond and serves landscaped areas adjacent to buildings and parking lots. A 36-inch-diameter culvert is located at the northwestern end of the pond and discharges into the adjacent western pond.

The western pond is irregular in shape with an area of approximately 75,000 square feet. Three stormwater influent points are located at the north and northeast sides of the pond. The northernmost influent points consist of two parallel 48-inch-diameter storm sewers serving the helicopter fly-up rinse area adjacent to the western taxiway. Also on the north side of the pond is a storm sewer influent point located in a narrow cove, which receives drainage from the taxiway and aircraft parking apron. The influent consists of two parallel, 42-inch-diameter storm sewers. The third influent point is located near the northeastern corner of the pond. It consists of a single 18-inch diameter culvert that receives drainage from the helicopter wash rack area located next to the pond.

The western pond discharges into the drainage ditch that parallels Patrol Road to the south through a 36-inch diameter, doubled-barrel culvert located under Patrol Road. The drainage ditch is tidally influenced. A weir, located on the upstream side of the 36-inch double-barrel culverts, maintains the water level in the eastern and western ponds and limits the flow from the ponds to the drainage ditch. The flow direction in the drainage ditch at low tide stages is generally to the south where it empties into Sherman Creek and Chicopit Bay.

The RFA identified the Flight Line Retention Ponds as an SWMU because a fire-fighting extinguishing material called aqueous film forming foam (AFFF) had been discharged to the watershed and rinsate from the aircraft wash rack could be discharged to the ponds by a malfunctioning valve. Runoff from the aircraft maintenance area also discharges to the ponds (A.T. Kearney, 1989). There are no engineered controls such as oil-water separators to minimize the impact of drainage from the areas served by these culverts and associated drainage systems.

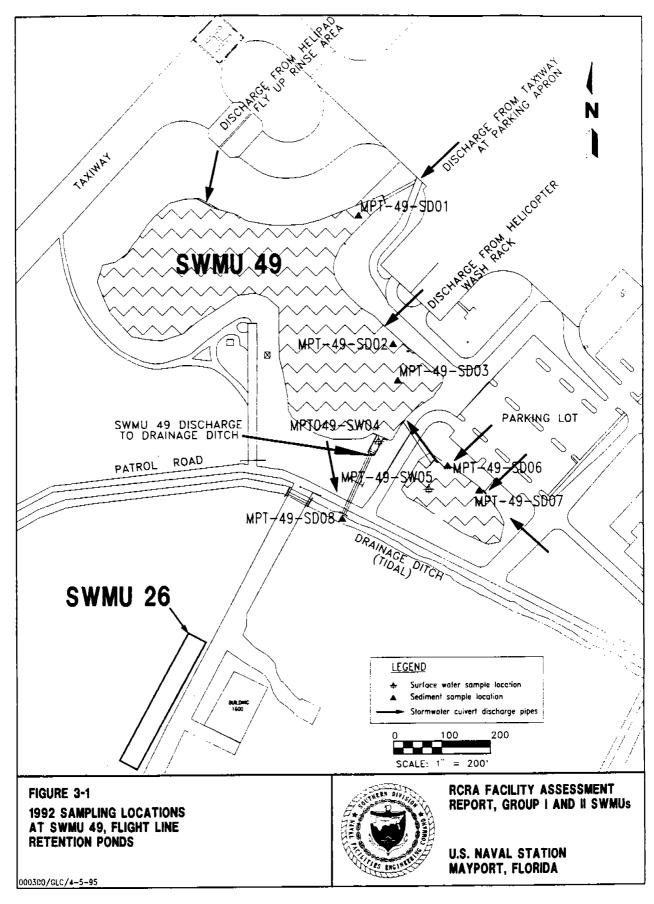
The RFA recommended a determination as to whether AFFF indeed contains Appendix IX (40 CFR 264) hazardous constituents. Currently, it is not known if AFFF contains Appendix IX constituents. Material Safety Data Sheets (MSDS) on AFFF are provided in Appendix D. AFFF is a fluorocarbon surfactant with excellent foaming characteristics that is moderately to extremely toxic (high chemical oxygen demand [COD]) to most organisms (A.T. Kearney, 1989). The high COD could present a threat to biological organisms in the ponds by reducing the level of oxygen. The RFA also recommended that sediment samples be collected from the ponds and the drainage ditch into which the ponds discharge.

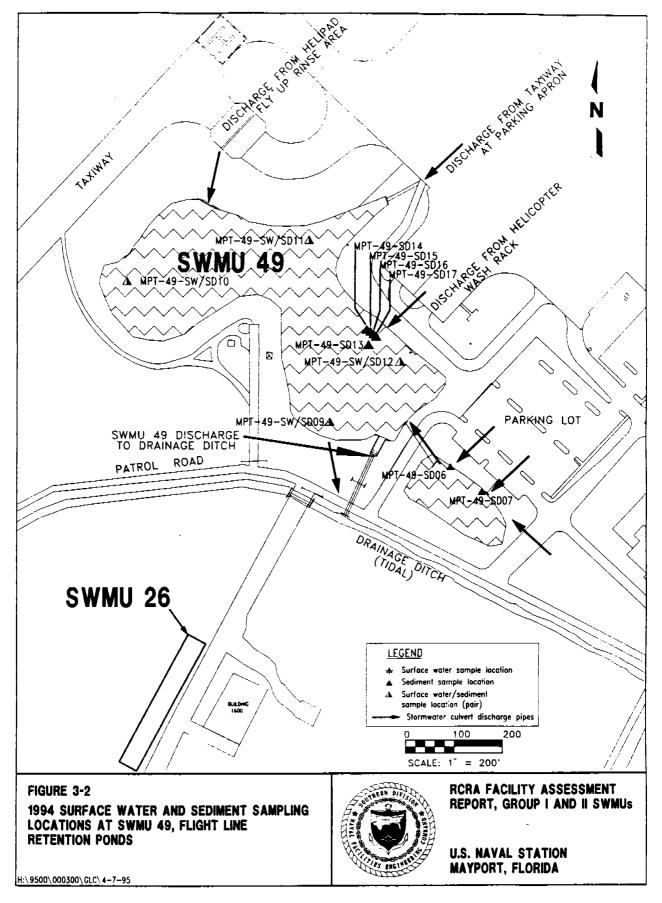
3.2 RFA SV FIELD INVESTIGATIONS. Based on recommendations of the RFA, surface water and sediment sampling was conducted to assess a possible release to the environment at SWMU 49 and to collect surface water and sediment samples to evaluate these media as potential exposure pathways near stormwater discharge points within the ponds.

Two surface water and six sediment samples, with duplicates and quality assurance and quality control (QA/QC) samples, were collected from SWMU 49 in April 1992. These sample locations are presented on Figure 3-1. Sediment samples were collected on the downstream side of inlet structures where offsite contaminants would be expected to accumulate. Surface water samples were collected upstream of exit structures where floating oil and grease or suspended solids might accumulate. Sample locations were chosen to bias the sampling towards areas most likely to be contaminated based on existing site knowledge and observed runoff patterns.

Based on the findings of the April 1992 RFA SV, additional surface water and sediment sampling was conducted at SWMU 49 on August 2 and September 12, 1994. The surface water and sediment samples were collected to assess whether hazardous constituents were present in the surface water and/or sediment and to confirm whether the contaminants in the area of the culvert outfall near sediment sample MPT-49-SD02 are of limited lateral extent. The following describes the sampling locations at the western and eastern ponds of SWMU 49 (Figure 3-2).

Because many field activities are common to all NAVSTA Mayport SWMUs, the sampling procedures for RFI and RFA SV (Confirmatory Sampling) events are described in Section 2.1, Summary of Exploration and Sampling Program, of the NAVSTA Mayport GIR (ABB-ES, 1995b). Site-specific elements and deviations from sampling procedures, if any, particular to SWMU 49 are discussed in subsequent paragraphs, and standard operating procedures are referenced where necessary. Surface water and sediment sampling procedures and associated equipment decontamination procedures were conducted in general conformance with USEPA Region IV standard operating procedures (USEPA, 1991a).





<u>Surface Water and Sediment Sample Collection Procedure</u>. Surface water and sediment sampling was accomplished as described in the NAVSTA Mayport RFI workplan (ABB-ES, 1991) and Subsection 2.1.3, Surface Water, Sediment, and Sludge Sampling, presented in the GIR.

Western Pond. Five sediment samples, without a corresponding surface water sample, were collected near sediment sample MPT-49-SD02, located at the discharge culvert for the helicopter wash rack. Four surface water and sediment sample pairs also were collected, one near the discharge culvert for the helicopter wash rack, one near the entrance to the discharge culvert to the patrol road drainage ditch, one near the cove that leads from the discharge from the taxiway and parking apron, and one at the northwestern part of the west pond in an area away from the discharge culverts.

<u>Eastern Pond</u>. Two sediment samples, without corresponding surface water samples, were collected from the easternmost retention pond in the immediate vicinity of the culvert on the north bank (Figure 3-2).

Laboratory Analysis. Surface water and sediment samples were analyzed for the same target analytes including VOCs, SVOCs, pesticides, PCBs, metals, and cyanide selected from the groundwater monitoring list contained in Appendix IX, 40 CFR 264 and USEPA Contract Laboratory Program target compound list and target analyte list. The analysis was conducted using methods from Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW846) (USEPA, 1986). A list of the target analytes is provided in Appendix A. Analytical results for each sample from the 1992 sampling event were presented in the RFA SV Report, Phase 1 (ABB-ES, 1992c), and results from the 1994 sampling event are provided in Appendix B.

Exceptions. Surface water and sediment samples collected during 1992 were only analyzed for SVOCs, pesticides, PCB, metals, and cyanide. The two sediment samples collected from the eastern pond during the 1994 sampling event were analyzed only for pesticides.

3.3 FINDINGS. The following presents a brief description of the surface water and sediment analytical results from the RFA SV sampling activities at SWMU 49.

Surface Water Samples. Table 3-1 summarizes water quality parameters for samples collected during 1994. No water quality parameter measurements were performed for surface water samples collected in 1992. Table 3-2 summarizes the validated analytical results for inorganic target analytes detected in surface water samples collected during 1992 at SWMU 49. Table 3-3 summarizes the validated analytical results for inorganic target analytes detected in surface water samples collected during 1994 at SWMU 49. A summary of frequencies of detection, range of detection limits, range of detected concentrations, arithmetic mean, and bench mark comparison values are provided in Table 3-4. The target analytes detected in the environmental samples were compared to station wide background surface water samples (ABB-ES, 1995b), and bench mark values from ambient water quality from the Office of Science and Technology, Health and Ecological Criteria Division, Washington D.C., May 1, 1991 (USEPA, 1991b), and Class III marine water quality standards (Chapter 62-302, Florida Administrative Code [FAC], 1995).

			+0010			
_	Water	Water Quality Parameters for SWMU 49 Surface Water Samples	ers for SWMU 49	Surface Water S	amples	
_		Gra	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	Report		
Anatylical Batch No.:		M7646	M7646	M7646	M7646	
Comple Metric		Surface Water	Surface Water	Surface Water	Surface Water	
Sample Location:		MPT-49-SW09	MPT-49-SW10	MPT-49-SW11	MPT-49-SD12	Class III Marine
Sample No.:		49SW009	49SW010	MPT49SW011	49SW012	Surface Water Standards
Date Sampled:		08/02/94	08/02/94	08/02/94	08/02/94	17-302,530 FAC
	. Inite	Conc	Conc.	Conc.	Cone.	Conc.
Common Native	2,000	166	150	150	146	> 20
Alkalinity as Cacco	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	60	< 0.3	< 0.3	< 0.3	1
Ammonia-nitrogen Chloride	1/6m	525	525	512	532	< 10% of Background
2010	APHA	001	02	. 70	0,	ı
Hardness as CaCO.	mg/t	317	288	308	308	:
Nitrate + nitrite nitrogen	1/6m	× 0.1	< 0.1	× 0.1	< 0. 1	1
Phosphorous P. total	a/gm	0.31	0.22	0.25	0.34	l
Sulfate	1/6m	57.7	65.1	55.8	61.8	:
Sulfide	J/Bm	24.7	< 1.0	< 1.0	× 1.0	•
Total Kieldahl nitrogen	mg/£	2.6	3.2	106	2.3	: ,
Ho	S	7.8	8.2	8.5	8.4	6.5 to 8.5
:: ::	lidated at ninistrative then carbonate s per liter. Public He	Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C. FAC = Florida Administrative Code. Conc. = concentration. CaCO ₃ = calcium carbonate. mg/t = milligrams per liter. % = percent. % = percent. APHA = American Public Health Association. SU = standard unit.	vironmental Support	Activity (NEESA) Leve	Ö	

Table 3-2 Inorganic Analytes Detected in Surface Water Samples at SWMU 49, 1992

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

				1, 1101100				
Analytical Bat	tch No.:		215	28	215	28	215	28
Sample Matri	x:		Wat	er	Wa	ter	Wa	ter
Sample Loca	tion:		MPT-49	-SW04	MPT-49	-SW04	MPT-49	-SW05
Sample No.:			MPT49	SW41	MPT49S	W41Dup	MPT49	SW51
Date Sample	d:		04/22	2/92	04/2	2/92	04/2	2/92
CAS RN	Common Name	Units	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony	(μg/t)	-		-		14	J
7440-39-3	Barium	(µg/1)	6.8	J	7.4	J	10.9	J
7440-47-3	Chromium	(μg/1)	-		2.6	J	3.5	J
7440-92-1	Lead	(μg/1)	20.2	J	15.6	J	14.9	J
7440-02-0	Nickel	(µg/1)			_		3.9	J
7440-62-2	Vanadium	(μg/1)	2.4	J	3.4	J	4.8	J

Notes: Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C. Suffix Dup = a duplicate sample of the corresponding environmental sample.

Conc. = concentration.

Qual. = qualifier.

 $\mu g/I = micrograms per liter.$

J = qualifier indicating estimated value.

- = analyte not detected.

Table 3-3
Inorganic Analytes Detected in Surface Water Samples at SWMU 49, 1994

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

Sample Delivery Group No.:	M7645	M7645	M7645	M7645
Sample Matrix:	Surface Water	Surface Water	Surface Water	Surface Water
Sample Location:	MPT-49-SW09	MPT-49-SW010	MPT-49-SW11	MPT-49-\$W12
Sample Number:	49SW009	49\$W010	49SW011	49SW012
Sample Date:	02-AUG-94	02-AUG-94	02-AUG-94	02-AUG-94

Volatile Organic Compounds (µg/£)

None detected

Semivolatile Organic Compounds (µg/ℓ)

None detected

Pesticides and PCBs $(\mu g/t)$

None detected

Inorganics $(\mu g/\ell)$

_	2.4 J	2.6 J	-	
1.7 J	6.8 J	2.9 J	1.4 J	
18.4 J	35.6 J	12 J	15 J	
	0.88 J	-	-	
	6 J	-	-	
2.1 J	14.1 J	-	-	
12.4 J	18.4 J	-	-	
4.1 J	34.2 J	_	-	
	0.23	_		
78. 6 J	17.6 J	-	_	
4.8 J	29 J	3.4 J	3.3 J	
	164	••		
••	0.33 J	-	-	
	1.7 J 18.4 J 2.1 J 12.4 J 4.1 J 78.6 J 4.8 J 38	1.7 J 6.8 J 18.4 J 35.6 J - 0.88 J - 6 J 2.1 J 14.1 J 12.4 J 18.4 J 4.1 J 34.2 J - 0.23 78.6 J 17.6 J 4.8 J 29 J 38 164	1.7 J 6.8 J 2.9 J 18.4 J 35.6 J 12 J - 0.88 J - - 6 J - 2.1 J 14.1 J - 12.4 J 18.4 J - 4.1 J 34.2 J - - 0.23 - 78.6 J 17.6 J - 4.8 J 29 J 3.4 J 38 164	1.7 J 6.8 J 2.9 J 1.4 J 18.4 J 35.6 J 12 J 15 J - 0.88 J - 6 J 2.1 J 14.1 J 12.4 J 18.4 J 4.1 J 34.2 J - 0.23 78.6 J 17.6 J 4.8 J 29 J 3.4 J 3.3 J 38 164

Notes: $\mu g/\ell$ = micrograms per liter.

PCBs = polychlorinated biphenyls.

J = qualifier indicating estimated value.

^{-- =} analyte not detected.

Analyte of Detection of Operation of Detection of Operation of Detection of Operation of Operati										
E (vg/1) ytes Detected latiles (vg/1)	<u> </u>			Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	A SV Report Station orida					
e (ug/ll) lytes Detected					-	Ambient Water Quality Criteria ⁵	ter Quality ia ⁵	Class III	Analyda	
Volatiles (µg/t) No Analytes Detected Semivolatiles (µg/t)	ncy Range of nct- Reporting Limits		Range of Detected Concentrations ²	Mean of Detected Concentrations ³	Background Screening Value⁴	For Protection of Aquatic Life: Acute/Chronic	For Protection of Human Health	Surface Water Standards	CPC? (Yes/No)	Reason?
No Analytes Detected Semivolatiles (µg/f)										
Semivolatiles (µg/f)										
No Analytes Detected										
Pesticides/PCBs (µg/f)										
No Analytes Detected										
Inorganics (µg/f)						,			:	•
Antimony 3/6	2.2 to 10.9	10.9	2,4 to 14	6.3	9.77	1,500/500	45,000	4,300	2	c o
Arsenic 4/6	9,4 to 9,4	9,4	1.4 to 6.8	3.2	6.2	96/69	0.0175	SO SO	Yes	
Barium 6/6	R	~	7.1 to 35.6	15.6	22.6	NA/NA	¥	N A	Yes	
Beryllium 1/6	0.18-0.19	91.19	0.88	0.88	ᄝ	NA/NA	0.0641	0.13	Yes	
Cadmium 1/6	2.9 to 3	0.3	Ð	ဖ	3.2	43/9.3	¥ X	E 6	Š	Σ ď
Chromium 4/6	2 to 2	2	1.8 to 14.1	5,4	ĸ	11,100/50°3,433,000	433,000	 S	2	∑ Í ď
Copper 2/6	4 to 16	16	12.4 to 18.4	15.4	27.4	2.9/NA	N A	2.9	2	©
Lead 4/6	2 to 2	α.	4.1 to 34.2	17.8	5.6	220/8.5	¥.	5.6	Yes	
Mercury 1/6	0.04 to 0.16	0.16	0.23 to 0.23	0.23	2	2.1/0.025	0.146	0.25	Yes	
Nickel 3/6	3.8 to 7.3	7.3	3.9 to 78.6	28.8	5 8	75/8.3	1 0	69 33	Yes	
Vanadium 6/6	R	œ	2.9 to 2.9	6 0	œ	NA/NA	Š	¥ ¥	Yes	
Zinc 2/6	6 to 29.2	29.2	38 to 164	101	4	98/96	Ϋ́	98	Хөз	
Cyanide 1/6	0.32 to 1.8	o 1.8	0.33	0.33	60	1/NA	NA	-	S	6

Chemicals of Potential Concern in Surface Water Samples at SWMU 49 Table 3-4 (Continued)

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

	Reason?	
Analyte	CPC? (Yes/No)	section here
Class III	Surface Water Standards	yalan paipustama
er Guality ia ^s	For Protection of Human Health	
Ambient Water Guality Criteria ⁵	For Protection of Aquatic Life:	(Saulay hatsales exilinated) and the second
	Background Screening Value	
	Mean of Detected Concentrations ³	
	Range of Detected Concentrations ²	
	Range of Reporting Limits	
	Frequency of Detect- ion ¹	
	Analyte	

2 Value indicated by asterisk is the average of a sample and its duplicate. For duplicate samples having one nondetected values, 1/2 the contract required quantitation limit Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected v

0or contract required detection limit (CRDL) is used as a surrogate.

The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected including values qualified as "J"; it does not include those samples where the analyte was not detected ("U," or "UJ" qualitiers) and rejected ("R" qualitier.)

The background screening value is twice the average of detected concentrations for inorganic analytes in background samples. Organic values are one times the mean of

Values are taken from U.S. Environmental Protection Agency (USEPA) Water Quality Criteria Summary, Office of Science and Technology, Health and Ecological Criteria detected concentration. Organic values are included for comparison purposes only.

Division, Washington, D.C., May 1, 1991.

Values are taken from Surface Water Quality Standards, Florida Administrative Code, Chapter 62-302, amended January 1995. Analytes were included or excluded from the risk assessment for the following reasons:

A = the maximum detected concentration did not exceed the Ambient Water Quality Criteria for the Protection of Marine Aquatic organisms and the analyte will not be B = the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at background locations

H = the maximum detected concentration did not exceed the Ambient Water Quality Criteria for the Protection of Human Health from the Ingestion of fish and the analyte

M = the maximum detected concentration did not exceed the Marine Surface Water (Class III) Surface Water Quality Standards and the analyte will not be considered

Proposed criteria.

The value is based on the trivalent form of arsenic.

10 The value is based on chromium trivalent form.

" The value is based on chromium hexavalent form.

Notes: The average of a sample and its duplicate is used for all table calculations.

Sample locations include: 49SW41; 49SW51; 49SW009; 49SW010; 49SW11; and 49SW12.

Background sample locations include: MPT-B-SW1; MPT-B-SW2; MPT-B-SW4; MPT-B-SW5; MPTB-SW6; MPT-b-SW7 and OOSW001. Duplicate background sample locations include: MPT-B-SW3DUP; and MPT-B-SW7DUP, Duplicate sample location includes: 49SW41DUP.

NA = not available. ND = not detected in any background samples. ug/kg = micrograms per kilograms. PCBs = polychlorinated biphenyls.

reporting limits are same as range of detected concentrations. NR = not reported; analyte detected in each sample;

MP-GI&II.RFA ASW.11.95

Because a different set of target analytes was measured in surface water samples collected in 1992 and 1994, the following presents a description of the target analytes that were detected during each sampling event.

Surface Water Sampling Event, 1992. During April 1992 two surface water samples were collected, one each from the west and east ponds. No organic compounds (VOCs, SVOCs, pesticides, or PCBs) were detected in the surface water samples. Six inorganic analytes (antimony, barium, chromium, lead, nickel, and vanadium) were detected in surface water samples collected at SWMU 49 (Table 3-2). Barium, chromium, lead, and nickel were detected in the sample collected from the west pond. Each of the six analytes were detected in the sample collected near the upstream side of the outfall where it discharges from the western pond to the drainage ditch along the south side of Patrol Road.

Surface Water Sampling Event, 1994. The results of water quality measurements for the 1994 samples are provided in Table 3-1. The sample collected near the upstream side of the outfall of the western pond to the drainage ditch along Patrol Road appears to exhibit a slight difference in water quality parameters from the other sample locations. The western and eastern ponds could be classified as Class III, predominantly freshwater bodies, and the drainage ditch into which the ponds discharge could be classified as a Class III, predominantly marine water body.

During August 1994, four surface water samples were collected from the western pond. No organic compounds (VOCs, SVOCs, pesticides, or PCBs) were detected in the surface water samples. Surface water sample MPT-49-SW09, collected near the outfall of the western pond to the drainage ditch along Patrol Road, contained eight metals (arsenic, barium, chromium, copper, lead, nickel, vanadium, and zinc). Surface water sample MPT-49-SW10, collected in the west part of the western pond, contained 12 metals (antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, nickel, vanadium, and zinc) and cyanide. Surface water sample MPT-49-SW11, collected at the cove that leads from the drainage culvert from the taxiway and aircraft parking area, contained four metals (antimony, arsenic, barium, and vanadium), and surface water sample MPT-49-SW12 contained three metals (arsenic, barium, and vanadium).

Sediment Samples. Tables 3-5, 3-6, and 3-7 summarize the validated analytical results for SVOCs, pesticides, and inorganic target analytes detected in sediment samples collected during 1992 at SWMU 49. Table 3-8 summarizes the validated analytical results for VOCs, SVOCs, and pesticides and Table 3-9 summarizes inorganic target analytes detected in sediment samples collected during 1994 at A summary of frequencies of detection, range of detection limits, range of detected concentrations, arithmetic mean, and bench mark comparison The target analytes detected in the values are provided in Table 3-10. environmental samples were compared to station wide background sediment samples (ABB-ES, 1995b) and bench mark values from effects range-low (ER-L) and effects range-median (ER-M) values from The Potential for Biological Effects of Sedimentsorbed Contaminants Tested in the National Status and Trends Program, National Oceanic and Atmospheric Administration (NOAA) (Long and others, 1993), and threshold effects level (TEL) and probable effects level (PEL) from Approach to the Assessment of Sediment Quality in Florida Coastal Waters, MacDonald Environmental Sciences, Ltd. (MacDonald, 1994).

	Semivolatile	e Organi	Table 3-5 anic Analytes Detected in Sediment Samples at SWMU 49, 1992	Ta	Table 3-5 cted in Set	diment (Samples	at SWN	IU 49, 19	92		
			Ö	oupstani U.S. N May	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	V Report on la						
ON dated legitudes	ON Hotel		21528		21528	88	21528		21528	. 82	21528	<u> </u>
Sample Matrix:	atrix:		Sediment	ant .	Sediment	neut	Sediment	ent	Sediment	nent	Sediment	ent
Sample Location:	cation:		MPT-49-SD02	3D02	MPT-49-SD07	-SD07	MPT-49-SD06	9008	MPT-49-SD8	-SD8	MPT-49-SD8	-SD8
Sample No.:	:0		MPT49SD21	D21	MPT49SD71	SD71	MPT49SD61	SD61	MPT-49-SD-81	-SD-81	MPT-49-SD-81Dup	-81Dup
·	i		04/22/92	95	04/22/92	2/32	04/22/92	/92	04/22/92	2/92	04/22/92	76/
CAC DN	Special Name	Units	Conc.	Qual.	Cone.	Qual.	Conc.	Qual.	Conc.	Qual.	Cone.	Qual
91-20-3	Naphthalene	μg/kg	16,000				:		1		1	_
91-57-6	2-Methylnaphthalene	µg/kg	1,300	7	1		;		I		1	
206-44-0	Fluoranthene	pg/kg	370	¬	49	-	ı		<u>%</u>	٠	1	
129-00-0	Pyrene	64/6n	320	7	25	7	ı		29	~	1	
85-68-7	Butylbenzylphthalate	ng/kg	510	-,	! 		!	_	1		970	
117-81-7	bis(2-Ethylhexyl)phthalate	µg/kg	26,000	7	420		000	٦			<u>:</u>	
		!	C. Grand (NEESA) 1 Byel	City City	Just Activity	A (NEESA) Level C.					

Notes: Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C. Suffix Dup = a duplicate sample to the corresponding environmental sample.

Conc. = concentration. Qual. = qualifier.

μg/kg = micrograms per kilogram. .. = analyte not detected. ''J' = estimated value.

Table 3-6 Pesticides and Polychlorinated Biphenyls (PCBs) Detected in Sediment Samples at SWMU 49, 1992

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

Analytical B	letch No :		215	528	2152	:8	215	528
Sample Ma				ment	Sedim		Sedi	ment
Sample Loc			MPT-4	9-SD07	MPT-49-	SD08	MPT-4	9-SD08
Sample No	.:		MPT4	9SD71	MPT498	SD81	MPT499	D81Dup
Date Samp	led:		04/2	22/92	04/22	/92	04/2	2/92
CAS RN	Common Name	Units	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
76-44-8	Heptachior	μg/kg	51	- 	_		-	
72-55-9	4,4'-DDE	µg/kg	-	:	11	J	2.6	J
72-54-8	4,4'-DDD	μg/kg	38	J	8	J	-	
57-74-09	Chlordane	<i>µ</i> g/kg	730			_	-	

Notes: Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C. Suffix Dup = a duplicate sample to the corresponding environmental sample.

Conc. = concentration.

Qual. = qualifier.

 μ g/kg = micrograms per kilogram.

- = analyte not detected.

"J" = estimated value.

		-	organic	Analyte	ss Deter	Ta	Table 3-7 Inorganic Analytes Detected in Sediment Samples at SWMU 49, 1992	Sample	s at SV	VMU 49	1, 1992					
					g	roups I ar U.S. I Mav	Groups I and II RFA SV Report U.S. Naval Station Maybort, Florida	Report n								
			9152B		21528	1	21528	8	21528	 gg	21528		21528		21528	80
Analytical Batch No.:	atch No.:		Cadiment	, ;	Sediment	- tuer	Sediment	ent	Sediment	lent	Sediment	ant	Sediment	ent –	Sediment	<u>_</u> _
Sample Matrix: cample Location:	Irix: ation:		MPT-49-SD01	3001	MPT-49-SD02	-SD02	MPT-49-SD03	SD03	MPT-49-SD06	SD06	MPT-49-SD07	2003	MPT-49-SD08	SD08	MPT-49- SD08	- -
Sample No.:	: 		MPT49SD11		MPT49SD21	SD21	MPT49SD31		MPT49SD61	SD61	MPT49SD71	1,203	MPT49SD81	SD81	MPT49SD81 Dup	SD81
					Š		00/00/00	60/	04/22/92	/92	04/22/92		04/22/92	76/	04/22/92	/92
Date Sampled:	led:		04/22/92	76	04/22/92	76/2	77/20	1			-			3	Con	Oual
CAS BN	Common Name	Units	Conc.	Qual.	Conc.	Qual.	Conc.	Oual.	Conc.	Oual.	Conc.	Oral	Sale:		ن	
		200/00	,		12.7	-	;						ı		1	•
7440-36-0	Antimony	fir/fill	,	-	9.0	_	0.44	_	8.7		-	_	0.85	_	4.0	,
7440-38-2	Arsenic	mg/kg	, i	,	9	, -		_	14.3	7	6.0		4.3	_	5.3	7
7440-39-3	Barium	mg/kg	4.1	¬	 83	7	0,	•	890	-	=		60:0	7	90:0	
7440-41-7	Beryllium	mg/kg	0.4	-	1		1		800	,	;	ì			1	
7440-43-9	Cadmium	mg/kg	;		б		1		1 8		17.6	_	3.9		4.4	
7440-47-3	Chromium	mg/kg	12.2		32.9		· _		3 '		?		7	7	1	
7440-48-4	Cobalt	mg/kg	2.1	7	1.5	7	: •	-		,	, <u>t</u>		3.4	7	5.3	ſ
7440-50-8	Copper	mg/kg	7.6	7	49.7		225	- · -	- 20	_			2.7	7	3.4	7
7440-92-1	Lead	mg/kg	57. 80.	ה	92	7	2.3	٠.	0.00	, -	42.4		6	7	1.9	ר
7440-02-0	Nicket	mg/kg	•	-	14.3	,	2.9	·	?	,	<u>.</u>		1		ı	
7440-49-2	Selenium	mg/kg	0.47	- -	9.0	¬ ·	1		1		. ;		1		!	
7440-22-4	Silver	mg/kg	:		<u>6.</u>	· ·	; ;				4.3	ſ	3.4	-	2.5	~
7440-62-2	Vanadium	mg/kg	12.5	- -	e e e	÷	. ;	,	200		8 90		107		19	
7440-66-6	Zinc	mg/kg	34	.,	97.5		.0.		95.3	_	88	-	6:0		0.33	<u> </u>
5955-70-0	Cyanide	mg/kg	:		1.2	-	<u>.</u>		<u>.</u>		70.05	,				
Notes: La	┨┇┡	ited at Nava ate sample	al Energy ar	nd Envirc ispondin	onmental g environ	Support A mental sa	and Environmental Support Activity (NEESA) Level C rresponding environmental sample.	SA) Level	ല			,				
	Conc. = concentration. Oual. = qualifier.	Ė		1 7	= analyte " = estim	= analyte not detected. "J" = estimated value.	cted.									
Ē	mg/kg = milligrams per kilogram.	oer kilogran	انے													

Organic Anal	ytes Detected in	Table 3-8	nples Collected	Table 3-8 Organic Analytes Detected in Sediment Samples Collected at SWMU 49, 1994	994
	Ō	Groups I and II RFA SV Report U. S. Naval Station Mayport, Florida	sV Report don da		
Analytical Batch No.:	R8730	R8730	R8730	R8730	R8730
Sample Matrix:	Sediment	Sediment	Sediment	Sediment	Sediment
Location No.:	MPT-49-SD014	MPT-49-SD015	MPT-49-SD016	MPT-49-SD017	MPT-49-SD017
Sample No.:	49SD014	49SD015	49SD016	49SD017	49SD017Dup
Date Sampled:	12-SEP-94	12-SEP-94	12-SEP-94	12-SEP-94	12-SEP-94
VOCs (µg/kg)					
Acetone	i	1	ţ	ı	1
Carbon disulfide	i	ı	4 J	13	11.3
2-Butanone	ì	i	;	ı	ı
Acetonitrile	Ī	ì	t	ı	16 J
SVOC (pg/kg)					
bis(2-Ethylhexyl)phthalate	94 J	460 J	ł	440 J	180 J
Pesticides and PCBs (µg/kg)					
4,4-DDE	1.2	!	1.8	1	ı
4,4-DDD	;	1	4.4 U	1	;
See notes at the end of table					

Organic	Table 3-8 (Continued) Organic Analytes Detected in Sediment Samples Collected at SWMU 49, 1994	Table 3-8 (Continued)	inued) nples Collected a	t SWMU 49, 1994	
		Groups I and II RFA SV Report U. S. Naval Station Mavport, Florida	SV Report tion da		
A description of the second	M7645	M7645	M7645	M7645	R873
Analytical Batcii 140	Sediment	Sediment	Sediment	Sediment	Sediment
Sample Manix.	MPT-49-SD009	MPT-49-SD010	MPT-49-SD011	MPT-49-SD012	MPT-49-SD013
Sample Number	49SD009	49SD610	49SD011	49SD012	49SD013
Date Sampled:	02-AUG-94	02-AUG-94	02-AUG-94	02-AUG-94	12-SEP-94
VOCs (ualka)					
Acetone	230 J	240 J	1	510 J	1
Osrbon disultida	30	26	18	58	ı
California discontinuo	- SO 7	33 J	15 J	64 J	ï
Acetonitrile	1	:	1	1	;
SVOCs (µg/kg)					
bis(2-Ethylhexyl)phthalate	1	· ·	;	1	בטרר
Pesticides and PCBs (µg/kg)			_	;	*
4,4-DDE	2.8 J	2.4	8.7	- 5	
4,4-DDD	:	*	-	1	;
aboratory Suffix Dup	data validated at Naval Energy and Environmental Support Activity (NEESA) Level C. a duplicate sample.	d Environmental Suppi sponding environment	ort Activity (NEESA) Le al sample.	vel C.	
SWMU = solid waste management unit.	management unit				
VOCs = volatile organic compounds.	tic compounds. per kilogram.				
= analyte not detected.	ted.				
"J" = estimated value.	aparada di anno				
SVOCs = semivolatile organic compounds.	organic compounds. ed biphenyls.				
DDE = dichlorodiphenyldichloroethene	nydichloroethene.				
DDD = dichlorodiphenyldichloroethane	nyldichloroethane.				

Inorganic An	Table 3-9 Inorganic Analytes Detected in Sediment Samples Collected at SWMU 49, 1994	Table 3-9 Sediment Samples	Collected at SWM	U 49, 1994	
	Grou	Groups I and II RFA SV Report U. S. Naval Station Mayport, Florida	: :		
Analytical Batch No.:	M7645	M7645	M7645	M7645	R873
Sample Matrix:	Sediment	Sediment	Sediment	Sediment	Sediment
Sample location:	MPT-49-SD009	MPT-49-SD010	MPT-49-SD011	MPT-49-SD012	MPT-49-SD013
Sample No.:	49SD009	49SD010	49SD011	49SD012	49SD013
Date Sampled:	02-AUG-94	02-AUG-94	02-AUG-94	02-AUG-94	12-SEP-94
Soils (mg/kg)					
Antimony	2.3 J	1,6 J	٦٥	1.7.J	ì
Arsenic	4.5 վ	6.2 J	10.8	6.9 კ	Ļ Si
Barlum	ال 17	18 J	19.2 J	18.1 J	3.4 J
Beryllium	0.65 J	ր 66:0	1.1 J	0.83 J	:
Cadmium	ì	i	i	:	1
Chromium	23.4	28.3	31.8	24.9	4,4
Cobalt	3.1 J	3.2 J	J 6.9	3.6 J	I
Copper	11.9 J	7.4 J	45.7	11.9 J	ï
Paq	22.9 J	14.2 J	21.9 J	22.9 J	t
Mercury	1	0.83	ı	:	1
Nickel	56	1	70.6	7.8 J	ı
Selenlum	i	1	1	1	;
Silver	ı	ı	2.4 J	:	;
Thalfium	1	t	1	1	;
Tin	8.8 J	9.2 J	10.9 J	to J	3.6 J
Vanadium	23 J	29.6 J	37.9 J	26.6 J	3.1 J
Zinc	94.1	42.4	625	57.5	4.9 J
Cyanide	0.12 J	:	:	:	:
See notes at end of table.					

Analytical Batch No.: Rediment Sample Matrix: Sediment Location No.: MPT-49SD-014 Sample No.: 49SD014 Date Samoled: 12-SEP-94	Mayport, Florida			
	R8730	R8730	R8730	R8730
к т	Sediment	Sediment	Sediment	Sediment
ti	MPT-49-SD015	MPT-49-SD016	MPT-49-SD017	MPT-49-SD017
Ü	49SD015	49SD016	49SD017	49SD017DUP
	12-SEP-94	12-SEP-94	12-SEP-94	12-SEP-94
Soile (mg/kg)		ı	ı	;
Antimony	: :	***	ණ භ	4.2 J
Arsenic 0.69 J	L I.I.	7 - F 0	17.1	14.3 J
Barium	3.6 J		- 1	6
L 60:00	0.11.0	0.4 J	0.74 J	0.89.0
	ı	0.33 ქ	ı	•
Cadmium	9	8.6	31.5	33.3
en	,	0.94 J	·	:
Cobalt		į	1	7.76
Copper	ì	66	10.9	10.3
Tead	t	i i	L 70.0	∪ 70.0
Mercury	ï		, 1	73.2
Nickel	i			0.64 J
Selenium	ï	0.10 0.10	9	1
Silver	1	:	· ;	
Thalling	0.21 J	0.32 J	0.31	l
	ı	ŧ	6.8 J	:
	3.9 J	15.5	38.3	40.3
¥nip.	10.1	6.7	15.9	14.7
	!	ı	0.42 J	:
Cyanide U.Z. J				

				H					ļ		
·•· ,	J	Chemicals of	Potential Con	rable 3-10 Chemicals of Potential Concern (CPCs) in Sediment Samples at SWMU 49, 1994	Sediment S	amples a	t SWMU	49, 199	4		
				Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	FA SV Report Station Iorida						
	Frequency	Range of	Range of	Mean of	Background	Long and Others	Others	MacDonald	onald	Analyte CPC	8 2222
Analyte	of Detection	Reporting Limits	Detected Concentrations ²	Detected Concentrations ³	Screening Value	ER-L°	EH-M°	TEL'	PEL®	(Yes/No)	Hoskar
Volatiles (µg/kg)											
Acetone	3/9	20 to 100	230 to 510	327	Q	Ä	¥	ΑĀ	NA V	Yes	
Acetonitrite	1/9	130 to 450	73	7.3	Q	A A	Ā	Ą	A A	Yes	**
2-Butanone	4/9	13 to 26	15 to 64	33	Q	₹	¥	¥	¥ ¥	Yes	
Carbon disulfide	6/9	6 to 7	4 to 58	29.7	51	X A	∢ Z	A A	A A	Yes	
Semivolatiles (µg/kg)											
Butylbenzylphthalate	2/15	420 to 14,000	510 to 593	532	Q	Ą.	A A	Υ ¥	ď	Yes	
bis(2-Ethylhexyl) phthalate	10/15	890 to 14,000	86- 26,000	2,839	231	V	A A	182	2,647	Yes	_
Fluoranthene	3/15	420 to 14,000	49 to 370	184	Q	900	5,100	21.2	144	Yes	
2-Methylnaphthalene	1/15	420 to 14,000	1,300	1,300	Q	0,	029	20.2	201	Yes	
Naphthalene	1/15	420 to 14,000	16,000	16,000	2	160	2,100	86.7	544	Yes	
Pyrene	3/15	420 to 14,000	52 to 320	168	282	999	2,600	153	1,398	Yes	
Pesticides/PCBs (µg/kg)	.										
Chlordane	1/17	8.4 to 1200	730 to 730	730	ջ	Š	¥ X	2.26	4.79	Yes	
4,4'-DDD	3/17	1.6 to 240	1.4 to 38	16.1	4.2	1.58	46.1	1.22	7.81	Yes	
4,4'-DDE	8/17	0.86 to 240	1.2 to 9.1	6.4	S. S.	2.2	27	2.07	3.74	Yes	
Heptachlor	1/17	0.84 to 120	51	51	Q.	AN	A A	₹	¥.	Yes	
See notes at end of table	ble.										

		Che	Table 3-10 (Continued) Chemicals of Potential Concern (CPCs) in Sediment Samples	Table 3-10 (Continued) ntial Concern (CPCs) in	ontinued) CPCs) in Se	diment S	amples				
				Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	FA SV Report Station Iorida						
		, o o o o o	Rande of	Mean of	Background	Long and Others	1 Others	MacDonald	nald	Analyte CPC	Daggon
Analyte	Frequency of Detec- tion	Reporting Limits	Detected Concentrations	Detected Concentrations ³	Screening Value*	ER-L ⁵	EH-M°	TEL?	PEL®	(Yes/No)	neason
Inorganics (mg/kg)								:	:	,	
Antimony	5/15	1.3 to 3.7	1.6 to 12.7	4.1	2	Υ Y	Ϋ́	¥ Z	₹ Ž	S 0	
Greenic	15/15	Z Z	0.20 to 14.4	4.4	5.4	8.2	20	7.24	41.6	ΥθS	
Bosins	14/15	1.7	2.8 to 29	12.2	14.6	A A	Ϋ́	Ϋ́	¥ Z	Yes	
	12/15	0.05 to 0.08	0.08 to 1.1	0.52	0.54	A A	Ϋ́	Υ Y	ğ	Yes	
Berymuns	2/15	0.25 to 2.4	0.33 to 9	4.7	1.14	1.2	9.6	9.676	4.21	Yes	
Cadmidm	14/15	2 to 2	1.9 to 32.4	17.8	15.2	8	370	52.3	160	<u>8</u>	L M, N, P
Carronnain	5. /r. c	0.78 to 1.6	0.8 to 6.90	2.9	4.8	ğ	Y Y	Ą	Ž	Yes	
Cobait	5 /6 5 /4	1 10 28	2.2 to 49.7	17.2	6.8	34	270	18.7	8 0	Yes	
Copper	51/11	2 to 1 at 0	2.2 to 76	18.3	6.5	46.7	218	30.2	112	Yes	
Lead	E1 /21	50 00 00 00	0 07 to 0 83	0.45	0.98	0.15	0.71	0.13	0.696	2	œ
Mercury	c1/2	0.04 10 0.27	900 P 1000	600	÷	50.9	51.6	15.9	42.8	Yes	
Nicket	10/15	1.5 to 6	8.07.03.8.1	1 O 46	Į Į	ž	¥ Z	Š	Ϋ́	운	æ
Selenium	4/15	0.15 to 1	0.16 to 0.60		: 5	1.0	3.7	0.733	1.77	Yes	
Silver	2/15	0.44 to 1.6	1.3 to 2.4		1 24	¥ Z	Ž	¥	Ž	8	8
Thallium	3/15	0.15 to 1	0.21 to 0.32		97.	4	Ą	Ž	ž	8	65
Tin	6/15	2.1 to 10.6	3.6 to 10.9	s.	0.47		2	2	Ą	Yes	
Vanadium	15/15	ĸ	1.5 to 39.3	15.2	8. 8.	¥ Z	2	<u> </u>	į	>	
Zinc	15/15	뜻	2.8 to 625	76.2	25.8	150	410	124	7	<u> </u>	
Cyanide	5/15	0.11 to 0.36	0.27 to 1.2	0.64	Q.	∢ Z	K	⊈	₹ Z	5 BD	
See notes on next bade.	age.										Ì

Chemicals of Potential Concern (CPCs) in Sediment Samples Table 3-10 (Continued)

Groups I and II RFA SV Report U.S. Naval Station

				Mayport, Florida							
	Frequency	Range of	Range of	Mean of	Background	Long and Others	Others	MacDonald	nald	Analyte CPC Beange	Good
malyte	of Detec-	Reporting Limits	Detected Concentrations ²	Detected Concentrations ³	Screening Value	ER-L®	ER-M°	TEL?	PEL	(Ves/No)	0000
	:										1

Value indicated by asterisk is the average of a sample and its duplicate. For duplicate samples having one nondetected values, 1/2 the contract required quantitation Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected values).

The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected including values qualified with a "J"; it does not include limit or contract required detection limit (CRDL) is used as a surrogate.

The background screening value is twice the average of detected concentrations for inorganic analytes in background samples. Organic values are one times the those samples where the analyte was not detected ("U," or "UJ" qualitiers) and rejected ("R" qualifier).

mean of detected concentration. Organic values are included for comparison purposes only.

Effects range-median (ER-M) represents the concentration where effects would occasionally occur. Source: "Incidence of Adverse Biological Effects within Ranges of Effects range-low (ER-L) value represents a concentration intended to estimate conditions in which effects would be rarely observed. Source: "Incidence of Adverse Biological Effects within Ranges of Chemical Concentrations in Marine and Estuarine Sediments" by Long and others, National Oceanic and Atmospheric Administration, 1993.

Threshold Effects Level (TEL) is a concentration at which no or minimal effects have been observed in any test species or biological community. Source: "Approach to Chemical Concentrations in Marine and Estuarine Sediments" by Long and others, National Oceanic and Atmospheric Administration, 1993.

the Assessment of Sediment Quality in Florida Coastal Waters" MacDonald, November 1994.

Probable Effects Level (PEL) is the lower concentration limits at which adverse effects may first be observed. Source: "Approach to the Assessment of Sediment

B = the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at background locations listed below (for inorganic Analytes were excluded from the risk assessment for the following reasons: Quality in Florida Coastal Waters," MacDonald, November 1994.

L = the maximum detected concentration did not exceed the Effects Range-Low (ER-L).

M = the maximum detected concentration did not exceed the Effects Range- Medium (ER-M).

the maximum detected concentration did not exceed the Threshold Effects Level,

the maximum detected concentration did not exceed the Probable Effects Level (PEL)

The average of a sample and its duplicate is used for all table calculations. Notes:

Sample locations include:

Duplicate background sample locations include: Background sample locations include:

ND = not detected in any background samples. ug/kg = micrograms per kitograms.

NA = not avaitable.

PCBs = polychlorinated biphenyls.

DDD = dichlorodiphenyldichloroethane.

DDE = dichlorodiphenyldichloroethene. mg/kg = milligrams per kilograms.

MP-GI&II.RFA ASW.11.95

The ER-L value represents a concentration at the low end of a range of values in which adverse biological effects have been observed. The ER-M represents a concentration approximately midway in a range of values associated with adverse biological effects (Long and others, 1993). The TEL represents the upper limit of the range of sediment contaminant concentrations dominated by No Effects Data (i.e., The Minimal Effects Range). The PEL represents a concentration in the lower range of values that are usually associated with adverse biological effects (MacDonald, 1994).

Because a different set of target analytes was measured in sediment samples collected in 1992 and 1994, the following presents a description of the target analytes that were detected during each sampling event.

Sediment Sampling Event, 1992. Six sediment samples were collected during April 1992, three from the west pond, two from the east pond, and one from the drainage ditch where the west pond discharges. No SVOCs, pesticides, or PCBs were detected in two of the samples (MPT-49-SD01 and MPT-439-SD03) collected from the west pond. Six SVOCs including four polynuclear aromatic hydrocarbons (naphthalene, 2-methylnaphthalene, fluoranthene, and pyrene) and two phthalates (butylbenzylphthalate and bis(2-ethylhexyl)phthalate) were detected in the sediment sample MPT-49-SD02 (Table 3-5). The highest values for these SVOCs were detected at this sample location, which is located near the northeastern shore of the west pond. This sample location is downstream of a stormwater culvert that receives and discharges runoff from the aircraft wash rack area.

One of the sediment samples (MPT-49-SD07) collected from the east pond contained concentrations of fluoranthene and pyrene. Both of the east pond sediment samples contained concentrations of bis(2-ethylhexyl)phthalate.

Sediment sample MPT-49-SD08 collected from the drainage ditch along Patrol Road contained concentrations of fluoranthene and pyrene, but these compounds were not detected in the corresponding duplicate. The duplicate to sediment sample MPT-49-SD08 contained butylbenzylphthalate, which was not detected in the sample.

Pesticides were not detected in the sediment samples collected from the western pond, but were detected in the one sediment sample collected from the east pond and in the sample and corresponding duplicate collected from the drainage ditch (Table 3-6).

Heptachlor, 4,4-dichlorodiphenyldichloroethane (DDD), and Chlordane were detected in sediment sample MPT-49-SD07 collected from the east pond. The sediment sample (MPT-49-SD08) and its duplicate collected from the drainage ditch contained 4,4'-dichlorodiphenyldichloroethene (DDE) and the sample, but not the duplicate, contained concentrations of 4,4'-DDD.

Fourteen metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, silver, vanadium, and zinc) and cyanide were detected in various combinations and concentrations in the sediment samples collected from the west and east ponds and drainage ditch (Table 3-7). The highest detected concentrations of the inorganic target analytes were detected in sediment sample MPT-49-SD02 collected at the western pond.

<u>Sediment Sampling Event, 1994</u>. Sediment samples MPT-49-SD12 through MPT-49-SD17 were collected in the vicinity of sediment sample MPT-49-SD02. Target analytes

detected in these sediment samples consisted of 4 VOCs (acetone, carbon disulfide, 2-butanone, and acetonitrile), 1 SVOC (bis(2-ethylhexyl)phthalate), 2 pesticides (4,4'-DDE and 4,4'-DDD) (Table 3-8), and 16 metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, thallium, tin, vanadium, and zinc) and cyanide (Table 3-9).

Sediment sample MPT-49-SD09, collected near the entrance to the culvert that leads to the drainage ditch along Patrol Road, contained 3 VOCs (acetone, carbon disulfide, and 2-butanone), no SVOCs, 1 pesticide (4,4'-DDE), and 12 metals (antimony, arsenic, barium, beryllium, chromium, cobalt, copper, lead, nickel, tin, vanadium, and zinc) and cyanide.

Sediment sample MPT-49-SD10, collected in the west part of the western pond, contained 3 VOCs (acetone, carbon disulfide, and 2-butanone), no SVOCs, 1 pesticide (4,4'-DDE), and 12 metals (antimony, arsenic, barium, beryllium, chromium, cobalt, copper, lead, mercury, tin, vanadium, and zinc).

Sediment sample MPT-49-SD11, collected in the west part of the western pond, contained 2 VOCs (carbon disulfide and 2-butanone), no SVOCs, 1 pesticide (4,4'-DDE), and 13 metals (antimony, arsenic, barium, beryllium, chromium, cobalt, copper, lead, nickel, silver, tin, vanadium, and zinc).

3.4 PRELIMINARY RISK EVALUATION.

Surface Water. VOCs, SVOCs, pesticides, and PCBs were not detected in the surface water samples. Concentrations of eight metals (arsenic, barium, beryllium, lead, mercury, nickel, vanadium, and zinc) exceed either background screening values or the bench mark values (Table 3-4). Arsenic was detected only in the four surface water samples collected in August 1994 and exceeded the background screening value $(6.2~\mu \text{g}/\text{L})$ in one of the samples. Each of the four samples contained arsenic at concentrations that exceeded the ambient water quality criteria (AWQC) for protection of human health for consumption of fish.

Barium was detected in each of the six surface water samples and a duplicate, and exceeded the background screening value (22.6 $\mu g/l$) in one of the samples. Currently, there are no benchmark values established for barium.

Beryllium was detected in one of six surface water samples. Beryllium was not detected in the background surface water samples. The detected concentration of beryllium exceeded the AWQC for protection of human health for consumption of fish $(0.0641~\mu g/l)$ and the Class III marine surface water standard $(0.13~\mu g/l)$.

Lead was detected in the two surface water samples and duplicate collected in April 1992 and two of the samples collected in August 1994 and exceeded the background screening value $(2.6~\mu\text{g}/\text{l})$ in each of the samples. The bench mark values for AWQC protection of aquatic life (chronic) $(8.5~\mu\text{g}/\text{l})$ and Class III marine surface water standard $(5.6~\mu\text{g}/\text{l})$ were exceeded by the concentration of lead in the two surface water samples and duplicate collected in April 1992 and two of the surface water samples collected in August 1994.

Mercury was detected as a single occurrence in one of the surface water samples collected in August 1994. Mercury was not detected in the background surface water samples. The detected concentration of mercury exceeded the bench mark value for AWQC protection of aquatic life (chronic) $(0.025~\mu g/l)$.

Nickel was detected in one of the surface water samples collected in April 1992 and two of the surface water samples collected during August 1994, and exceeded the background screening value (26 $\mu g/l$) in one of the surface water samples collected in August 1994. The two surface water samples collected in August 1994 contained nickel at concentrations that exceeded the AWQC protection of aquatic life (acute, 75 $\mu g/l$, and chronic, 8.3 $\mu g/l$) and Class III marine surface water standard (8.3 $\mu g/l$).

Vanadium was detected in each of the six surface water samples and duplicate. Only one of the samples contained vanadium at a concentration that exceeded the background screening value (8 $\mu g/l$). Currently, there are no bench mark values established for vanadium.

Zinc was detected in two of the surface water samples collected in August 1994 and exceeded the background screening value (4 $\mu g/l$) in both of the samples. One of the surface water samples collected in August 1994 contained zinc at a concentration that exceeded the AWQC protection of aquatic life (acute, 95 $\mu g/l$, and chronic, 86 $\mu g/l$) and Class III marine surface water standard (86 $\mu g/l$).

Because SWMU 49 is a stormwater retention pond and has restricted access (chainlink fence), it is not likely to be used for recreational fishing. However, it is common to see birds foraging at SWMU 49.

Sediment. Four VOCs (acetone, acetonitrile, 2-butanone, and carbon disulfide) were detected in sediment samples collected during August and September 1994. Carbon disulfide was detected in the background samples (background screening value, 51 μ g/kg). VOCs are not eliminated as a compound of potential concern because of detection in background sediment samples. Currently, there are no bench mark values available to assess the VOCs (Table 3-10) and they are considered CPCs.

Six SVOCs (naphthalene, 2-methylnaphthalene, fluoranthene, pyrene, butylbenzylphthalate, and bis(2-ethylhexyl)phthalate) were detected in sediment samples collected during April 1992 and only one SVOC (bis(2-ethylhexyl)phthalate) was detected in the sediment samples collected during August and September 1994. Pyrene (background screening value, 282 μ g/kg) and bis(2-ethylhexyl)phthalate (background screening value, 231 μ g/kg) were detected in background sediment samples. SVOCs are not eliminated as CPCs because of detection in background sediment samples.

Currently, no bench mark value is available to assess butybenzylphthalate; therefore, it is considered a CPC. (Bis(2-ethylhexyl)phthalate was detected in 10 of 15 sediment samples and exceeded the TEL (182 $\mu g/kg$) in four samples. Fluoranthene was detected in 3 of 15 sediment samples at concentrations that exceed the TEL (21.2 $\mu g/kg$) and in one sample at a concentration that exceeded the PEL (144 $\mu g/kg$). 2-Methylnaphthalene was detected as a single occurrence (1,300 $\mu g/kg$) and exceeded the ER-L (70 $\mu g/kg$), ER-M (670 $\mu g/kg$), the TEL (20.2 $\mu g/kg$), and PEL (201 $\mu g/kg$). Naphthalene was detected as a single occurrence (16,000 $\mu g/kg$), and exceeded bench mark values for ER-L (160 $\mu g/kg$), ER-M (2,100 $\mu g/kg$), TEL (86.7 $\mu g/kg$) and PEL 544 $\mu g/kg$). Pyrene was detected in 3 of 15 sediment samples and exceeded the TEL (153 $\mu g/kg$) in one sediment sample.

Four pesticide (chlordane, 4,4'-DDD, 4,4'-DDE, and heptachlor) were detected in sediment samples collected during April 1992. Only 4,4'-DDD and 4,4'-DDE were

detected in the sediment samples collected during August and September 1994. Chlordane was detected as a single occurrence (730 μ g/kg) and exceeded the TEL (2.26 μ g/kg) and PEL (4.79 μ g/kg). 4,4'-DDD was detected in 3 of 17 sediment samples at concentrations that exceed the ER-L (1.58 μ g/kg) and TEL (1.22 μ g/kg) and in 2 samples at concentrations that exceed the PEL (7.81 μ g/kg). 4,4'-DDE was detected in 8 of 17 sediment samples and exceeded the ER-L (2.2 μ g/kg) and TEL (2.07 μ g/kg) in six samples and the PEL (3.74 μ g/kg) in three samples. Currently, no bench mark value is available to assess heptachlor; therefore, it is considered a CPC.

Thirteen inorganic analytes (antimony, arsenic, barium, beryllium, cadmium, cobalt, copper, lead, nickel, silver, vanadium, zinc, and cyanide) were detected in the SWMU 49 sediment samples at concentrations that exceed background or bench mark values. Antimony, silver, and cyanide were not detected in background sediment samples, nor are there bench mark values for ER-L, ER-M, TEL, or PEL. In addition, ER-L, ER-M, TEL, nor PEL values have not been established for barium, beryllium, cobalt, selenium, thallium, tin, vanadium, and cyanide.

Eleven of the metals (arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc) exceeded their respective background screening values.

Seven of the inorganic analytes (arsenic, cadmium, copper, lead, nickel, silver, and zinc) detected in the sediment samples exceeded one or more of the bench mark values. Concentrations of arsenic exceeded the TEL (7.24 mg/kg) and ER-L (8.2 mg/kg) in 3 of 15 sediment samples, but were less than the ER-M (70 mg/kg) and the PEL (41.6 mg/kg). The background screening value for arsenic (5.4 mg/kg) was less than the ER-L, ER-M, TEL, and PEL values.

Concentrations of cadmium exceeded the ER-L (1.2 mg/kg), approach the ER-M (9.6 mg/kg), and exceeded the TEL (0.676 mg/kg) and PEL (4.21 μ g/kg) in 1 of 15 sediment samples. Cadmium was detected in only one other sample at concentrations less than the bench mark values. The background screening value for cadmium (1.14 mg/kg) also exceeds the MacDonald TEL.

Concentrations of copper exceeded the TEL (18.7 mg/kg) and the ER-L (34 mg/kg) in 3 of 15 sediment samples, but were less than the ER-M (270 mg/kg), and the PEL (108 mg/kg). The background screening value for copper (6.8 mg/kg) was less than the ER-L, ER-M, TEL, and PEL values.

Concentrations of lead exceeded the TEL (30.2 mg/kg) and the ER-L (46.7 mg/kg) in 1 of 15 sediment samples. Concentrations of lead were less than the ER-M (218 mg/kg) and the PEL (112 mg/kg). The background screening value for lead (9.2 mg/kg) was less than the ER-L, ER-M, TEL, and PEL values.

Concentrations of nickel exceeded the ER-L (20.9~mg/kg), the ER-M (51.6~mg/kg), the TEL (15.9~mg/kg), and the PEL (42.8~mg/kg) values in 3 of 15 sediment samples. The background screening value for nickel (11.6~mg/kg) was less than the bench mark values.

Concentrations of silver exceeded the ER-L (1.0 mg/kg), the TEL (0.733 mg/kg), and PEL (1.77 mg/kg) values in 2 of 15 sediment samples, but was less than the ER-M (3.7 mg/kg). Silver was not detected in the background sediment samples.

One of the 15 sediment samples contained zinc at a concentration (625 mg/kg) that exceeded the ER-L (150 mg/kg), ER-M (410 mg/kg), TEL (124 mg/kg), and PEL (271 mg/kg). The background screening value for zinc (25.8 mg/kg) was less than the Long and others ER-L and ER-M values and the MacDonald TEL and PEL values.

3.5 CONCLUSIONS AND RECOMMENDATIONS.

3.5.1 Conclusions

<u>Surface Water</u>. The western and eastern ponds could be classified as Class III predominantly freshwater bodies, and discharge to a drainage ditch that could be classified as a Class III, predominantly marine water body. Because SWMU 49 discharges to a Class III marine water body, the surface water samples collected from SWMU 49 were compared to Class III marine standards.

SWMU 49 is a stormwater retention pond with restricted access (chain-link fence) and, therefore, is not likely to be used for recreational fishing. However, it is common to see birds foraging at SWMU 49.

During April 1992 two surface water samples were collected, one each from the west and east ponds. No organic compounds (VOCs, SVOCs, pesticides, or PCBs) were detected in the surface water samples. Six inorganic analytes (antimony, barium, chromium, lead, nickel, and vanadium) were detected in surface water samples collected at SWMU 49 (Table 3-2).

During August 1994, four surface water samples were collected from the western pond. No organic compounds (VOCs, SVOCs, pesticides, or PCBs) were detected in the surface water samples. Twelve metals (antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, nickel, vanadium, and zinc) and cyanide were detected in surface water samples from SWMU 49 (Table 3-3).

Six of the metals (arsenic, barium, lead, nickel, vanadium, and zinc) exceeded background screening criteria. Beryllium and mercury were not detected in background surface water samples. The highest detected concentrations of arsenic, barium, lead, nickel, and zinc exceeded their respective background screening values (Table 3-4).

Target analytes detected at concentrations that exceeded the AWQC for protection of aquatic life, acute, were mercury, nickel and zinc. Target analytes detected at concentrations that exceeded the AWQC for protection of aquatic life (chronic) were arsenic. The Class III marine surface water standards were exceeded by barium, mercury, nickel, and zinc. Currently, no bench mark values have been established for vanadium.

Based on comparison of the metals detected in the surface water samples with the background screening criteria and the bench mark values, surface water in the SWMU 49 western and eastern ponds may be adversely impacted by discharge of stormwater from the industrial areas served by the stormwater retention ponds.

<u>Sediment</u>. During April 1992, six sediment samples were collected, three from the western pond, two from the eastern pond, and one from the drainage ditch along the south side of Patrol Road. These samples were not analyzed for VOCs. Target analytes consisting of 6 SVOCs (naphthalene, 2-methylnaphthalene, fluoranthene,

pyrene, butylbenzylphthalate, and bis(2-ethylhexyl)phthalate), 4 pesticides (heptachlor, 4,4'-DDE, 4,4'-DDD, and Chlordane), and 14 metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, silver, vanadium, and zinc), and cyanide were detected in various combinations and concentrations in the sediment samples collected from the western and eastern ponds and drainage ditch.

During August and September 1994, 11 sediment samples were collected, 9 from the western pond and 2 from the eastern pond. The samples collected from the eastern pond were analyzed only for pesticides. Target analytes consisting of 4 VOCs (acetone, carbon disulfide, 2-butanone, and acetonitrile), 1 SVOC (bis(2-ethylhexyl)phthalate), 2 pesticides (4,4'-DDE and 4,4'-DDD) and 15 metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, vanadium, and zinc) and cyanide were detected in various combinations and concentrations in the sediment samples collected from the western and eastern ponds.

Eleven of the metals (arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc) exceeded background screening criteria. Antimony, silver, and cyanide were not detected in background sediment samples. The highest detected concentrations of arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc exceeded their respective background screening values (Table 3-4). None of the organic compounds detected in sediment samples was eliminated as being of concern because of being detected in background sediment samples.

Currently, no bench mark values are available to assess the VOCs acetone, acetonitrile, 2-butanone, and carbon disulfide, the SVOC butylbenzylphthalate, and the pesticide heptachlor detected in the sediment samples; therefore, these organic compounds are considered CPCs. Bis(2-ethylhexyl)phthalate and pyrene were detected at concentrations that exceed the TEL. Fluoranthene was detected at concentrations the exceed the TEL and PEL. 2-Methylnaphthalene and naphthalene were detected at concentrations that exceed the ER-L, ER-M, TEL and PEL. The pesticides chlordane, 4,4'-DDD, and 4,4'-DDE were detected at concentrations that exceed the TEL and PEL. The inorganics arsenic, cadmium, copper, lead, mercury, nickel, silver, and zinc exceeded ER-L and TEL screening values and concentrations of cadmium, mercury, nickel, silver and zinc exceeded ER-M and PEL screening values.

Comparison of organic compounds and metals detected in the sediment samples to the background screening and bench mark values suggests that sediment in the SWMU 49 western and eastern ponds may be adversely impacted by discharge of stormwater runoff from the industrial areas served by the stormwater retention ponds. This is based on the detection of multiple organic and inorganic target analytes at concentrations where adverse biological effects are beginning to be observed (i.e., at concentrations greater than the ER-M and PEL).

Potential sources of contamination to surface water and sediment in the SWMU 49 stormwater ponds appear to be discharge of storm sewers from the industrial area and associated aircraft parking and taxiways and vehicle parking areas.

<u>3.5.2 Recommendations</u> An RFI focused toward ecological risk assessment or interim measures to remove the sediment in the basins is recommended for SWMU 49. The focused RFI should include ecological diversity measurements and aquatic and

sediment toxicity testing to assess whether to place SWMU 49 on the no further action list, establish a monitoring program to assess whether continued discharge from the industrial area is adversely affecting the ecology of the two ponds or conduct a corrective measures study based on the following rationale.

- SWMU 49 is a stormwater retention pond with restricted access to the
 western pond (chain-link fence) and is not likely to be used for
 recreational fishing. However, it is common to see birds foraging at SWMU
 49.
- VOCs, SVOCs, pesticides, and PCBs were not detected in the surface water samples.
- Eight of the metals (arsenic, barium, beryllium, lead, mercury, nickel, vanadium, and zinc) exceeded background screening criteria for surface water.
- Concentrations of six metals (arsenic, beryllium, lead, mercury, nickel, and zinc) exceeded the surface water bench mark values.
- VOCs (acetone, acetonitrile, 2-butanone, and carbon disulfide), SVOC (butylbenzylphthalate), and pesticide (heptachlor) were detected in the sediment samples, and currently there are no bench mark values to assess these compounds.
- Bis(2-ethyl(hexyl)phthalate was detected at concentrations that exceed the TEL and fluoranthene was detected at concentrations that exceed the TEL and PEL.
- 2-Methylnaphthalene and naphthalene exceeded bench mark values for ER-L and ER-M, TEL, and PEL.
- Chlordane, 4,4'-DDD and 4,4'-DDE exceeded the TEL and PEL bench mark values.
- Eleven of the metals (arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc) exceeded background screening criteria for sediment.
- Eight metals (arsenic, cadmium, copper, lead, mercury, nickel, silver, and zinc) detected in the sediment samples exceeded bench mark values.
- Concentrations of organic and inorganic target analytes exceeded bench mark values where adverse biological effects are beginning to be observed.
- Potential sources of contamination to surface water and sediment in the SWMU 49 stormwater ponds appear to be from discharge of storm sewers from the industrial area and associated aircraft parking and taxiways and vehicle parking areas.

4.0 SWMU 50, DREDGE SPOIL DISPOSAL AREAS

4.1 SITE DESCRIPTION AND BACKGROUND. SWMU 50 consists of two holding areas located in the southwest part of NAVSTA Mayport (Figure 1-3) that are used to contain materials dredged from the Mayport Turning Basin. The eastern holding area is roughly triangular and covers an area of approximately 1/4 square mile. The western holding area is roughly rectangular and covers an area of approximately 1/3 square mile. Both holding areas were constructed in marshy lowlands and are encircled with earthen dikes approximately 25 feet above the surrounding land surface. The top of the dikes are approximately 15 feet wide.

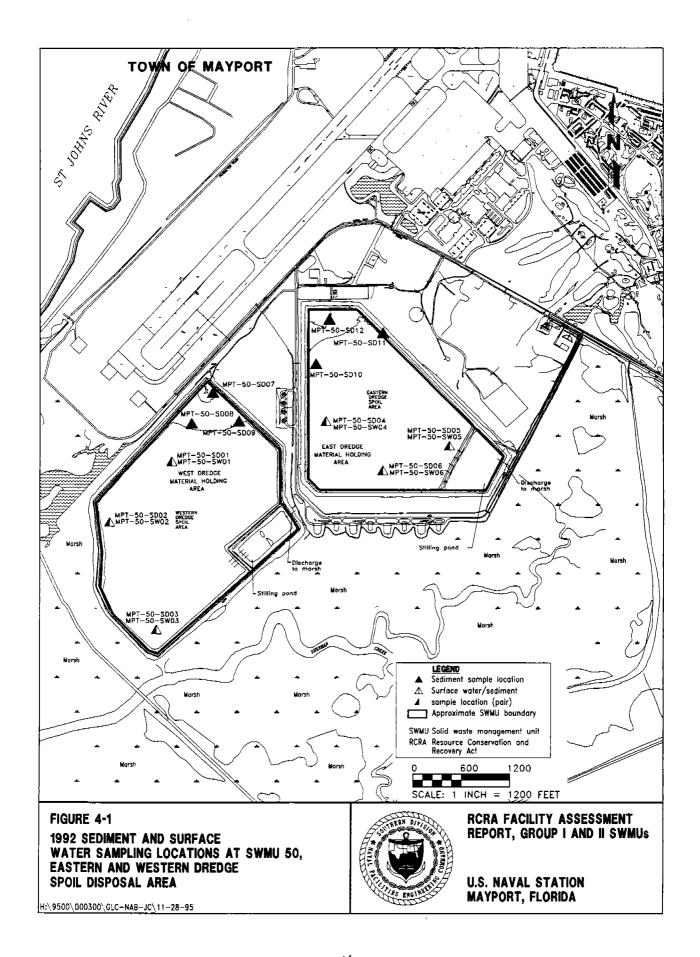
Surface water in the western and eastern dredge material holding areas is an ephemeral feature that is present during dredging activities and varies depending on the frequency and amount of rainfall. Because the dredge material holding areas do not maintain water for a sufficient duration, use of this area for recreational harvesting of aquatic species is not viable. The dredge material holding areas are viable foraging areas for birds. Least terms utilize dry sand and gravel parts of the holding areas for nesting.

Surface water in the dredge material holding areas is discharged to adjacent marsh areas. Prior to discharge the water flows through a stilling pond, which reduces the introduction of sediment to the marsh (Figure 4-1). The marsh area is a Class III marine environment.

Material dredged from the Mayport Turning Basin is periodically (every 2 to 3 years) placed in the holding areas. The placement of dredge material in the eastern holding area occurred from approximately the early 1940's and was discontinued temporarily from 1987 until 1994. The western basin has been active from 1973 to 1994. Both holding areas have reached their maximum capacity. Future dredging activities may involve offshore disposal of dredged materials unless some of the materials in the holding areas is removed. The Navy plans to remove the dredge material to provide capacity for future maintenance dredging of Mayport Turning Basin. A copy of the correspondence is provided in Appendix E.

The RFA identified the holding areas as an SWMU based on analyses of past sediment samples from the Mayport Turning Basin that suggested sediment placed in the holding areas could contain metals and organic compounds (e.g., oil and grease). Sediment samples were collected from the Mayport Turning Basin in 1971 during preparation for dredging activities scheduled in 1972. The analytical results indicated that heavy metals in the sediment exceeded USEPA standards. The sediment was reportedly dredged and placed at an offshore location (A.T. Kearney, 1989).

A 1978 study of sediment samples collected from the Mayport Turning Basin suggests that concentrations of mercury, zinc, iron, chromium, and vanadium were at higher concentrations in the sediment than concentrations of cadmium, lead, nickel, copper, beryllium, selenium, and arsenic. The study also compared the 1978 results to data from 1971, 1974, and 1976 and noted that compared to earlier analytical results, the concentrations of arsenic, cadmium, chromium, iron, lead, mercury, nickel, and oil and grease showed a decrease and concentration of zinc and COD showed a slight increase (A.T. Kearney, 1989).



A study conducted in 1983 and 1984 included sampling of both the St. Johns River and the Mayport Turning Basin. The study indicates that oil and grease, copper, iron, lead, nickel, and zinc were present in Mayport Turning Basin sediment. The study also suggests that the Mayport Turning Basin sediment contained higher concentrations of the inorganics than the samples collected from the St. Johns River (A.T. Kearney, 1989).

Prior to dredging activities in 1993, two sediment samples were collected from the Mayport Turning Basin (see Figure 1 in Appendix F). The samples were analyzed for toxicity characteristics by the toxicity characteristic leaching procedure (TCLP) and for VOCs, SVOCs, chlorinated pesticides, PCBs, cyanide, and metals listed in the Appendix IX groundwater monitoring list (40 CFR 264) by SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (USEPA, 1986). The extracts from the sediment samples did not contain any of the target analytes at concentrations that would exceed criteria used to characterize waste as hazardous (see Tables 1 through 4 in Appendix F).

The results of the analyses indicate the presence of the following in sediment samples: 4 VOCs (acetone, 2-chloroethylvinylether, isobutyl alcohol, and methylene chloride), 17 SVOCs (acenaphthene, anthracene, benzo(a)pyrene, benzo(g,h,i)perylene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, phenanthrene, pyrene, bis(2-ethylhexyl)phthalate, di-n-butylphthalate, and 1,4-dichlorobenzene), 2 pesticides (beta-BHC and 4,4"-dichlorodiphenyl-dichlorotrichloroethane [DDT]), and 17 inorganics (arsenic, aluminum, barium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, selenium, sodium, vanadium, and zinc) (see Tables 5 through 7 in Appendix F).

Maintenance dredging of Mayport Turning Basin was conducted from December 1993 to August 1994 and dredged material was placed into the western and eastern holding areas (SWMU 50). The dredging was performed by the U.S. Army Corps of Engineers in accordance with permit number 199004179 (IR-RP) issued on September 25, 1991, under the authority of Section 10 of the Rivers and Harbors Act, 33 U.S. Code (USC) 403. Because of this recent dredging event, the western and eastern holding areas (SWMU 50) were not accessible for sampling in 1994.

The RFA suggested that sediment samples should be collected at the eastern and western dredge material holding areas at various depths and locations and that the samples be analyzed for SVOCs and metals. The RFA also suggested that groundwater, surface water, and sediment samples be collected from areas adjacent to SWMU 50 (A.T. Kearney, 1989).

4.2 RFA SV FIELD INVESTIGATIONS. In April 1992, surface water and sediment (dredge material) sampling was conducted to assess the possible presence of hazardous constituents at SWMU 50. The objective of the data gathering activities at SWMU 50 was to collect surface water and sediment from various depths within the eastern and western dredge material holding areas. The purpose of the sampling event was to confirm whether contaminants are present at SWMU 50.

Because the sampling event was only to confirm whether contamination was present and the areal extent of the dredge material holding areas, sample locations were widely distributed to collect sediment samples representing various depths within

the eastern and western areas. The samples from each dredge material holding area consisted of three paired surface water and sediment (saturated sediment) samples and three sediment samples from dry parts (unsaturated sediment samples) of the holding areas.

Because many field activities are common to all NAVSTA Mayport SWMUs, the sampling procedures for RFI and RFA SV (confirmatory sampling) events are described in Section 2.1, Summary of Exploration and Sampling Program, of the NAVSTA Mayport GIR (ABB-ES, 1995b). Site-specific elements and deviations from sampling procedures, if any, particular to SWMU 50 are discussed in subsequent paragraphs, and standard operating procedures are referenced where necessary. Surface water and sediment sampling procedures and associated equipment decontamination procedures were conducted in general conformance with USEPA Region IV standard operating procedures (USEPA, 1991a).

<u>Surface Water and Sediment Sample Collection Procedure</u>. Surface water and sediment sampling was accomplished as described in the NAVSTA Mayport RFI workplan (ABB-ES, 1991) and Subsection 2.1.3, Surface Water, Sediment, and Sludge Sampling, located in the GIR.

Laboratory Analysis. Surface water and sediment samples were analyzed for the same target analytes including SVOCs, pesticides, PCBs, metals, and cyanide selected from the groundwater monitoring list contained in Appendix IX, 40 CFR 264, and USEPA Contract Laboratory Program target compound list and target analyte list. VOCs were not analyzed. Analysis of surface water and sediment samples was by methods contained in Test Methods for Evaluating Solid Waste Chemical/Physical Methods (SW 846) (USEPA, 1986). A list of the target analytes is provided in Appendix A. Analytical results for each sample from the 1992 sampling event were presented in the RFA SV Report, Phase 1 (ABB-ES, 1992c), and the results of the 1994 sampling event are provided in Appendix B.

- 4.3 FINDINGS. The following presents the results of analysis of surface water and sediment samples collected within the eastern and western dredge material holding areas (SWMU 50).
- 4.3.1 SWMU 50 Surface Water and Sediment Samples. No water quality parameter measurements were performed for the surface water samples. Table 4-1 summarizes the validated analytical results for inorganic target analytes detected in surface water samples collected during 1992 at SWMU 50. A summary of frequencies of detection, range of detection limits, range of detected concentrations, arithmetic mean, and bench mark comparison values are provided in Table 4-2. The target analytes detected in the environmental samples were compared to background surface water samples collected from Mayport Turning Basin and the St. Johns River (ABB-ES, 1995b), and bench mark values for ambient water quality (USEPA, 1991b) and Class III marine water quality standards (Chapter 62-302, FAC 1995).

Three surface water samples were collected at each of the dredge material holding areas (Figure 4-1). SVOCs, pesticides, and PCBs were not detected in the surface water samples. Twelve inorganic analytes were detected including antimony, arsenic, barium, cadmium, chromium, cobalt, lead, nickel, tin, vanadium, zinc, and cyanide (Table 4-1). Cobalt, lead, and cyanide were detected only in the surface water samples collected from the western holding area, and antimony and zinc were detected only in the surface water samples collected from the eastern holding area.

			Inorg	janic A	nalytes l	Detecte	Table 4-1 Inorganic Analytes Detected in Surface Water Samples at SWMU 50	4-1 face Wa	ter Sam	ples at	SWMU	20				
						Group	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	RA SV Re Station Florida	pod							
Analyte Batch No.	ON -		21528	38	21528	38	21528	- S8	21528	28	21541	<u></u>	21528	88	21528	60
Comple Matrix:	<u>.</u>		Water		Water		Water		Water		Water		Water	ă	Water	<u></u>
Sample Incurs:	tion:		MPT-50-SW01	SW01	MPT-50-SW02	SW02	MPT-50-SW03	SW03	MPT-50-SW03	SW03	MPT-50-SW04	SW04	MPT-50-SW05	SW05	MPT-50-SW06	Swoe
oly alone o			MPT-50-SW-	SW-11	MPT-50-SW-21	SW-21	MPT-50-SW-31	SW-31	MPT-50-SW-31D	3W-31D	MPT-50-SW-41	SW-41	MPT-50-SW-51	SW-51	MPT-50-SW-61	SW-61
Campie 10:	1		CD/ CC/ VU	20/1	04/22/92	76/	04/22/92	7,92	04/22/92	76/	04/23/92	/92	04/23/92	/92	04/23/92	/92
Cas RN	Common	Units	Conc.	Oual.	Conc.	Oual.	Conc.	Qual	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
	Name	•/ •/					,		,		:		14.2	7	21.3	l f
7440-36-0	Antimony	• / 6r	27.4		9 00	_	47.8	ت	35.9	-7	35.8		909	~	33.8	7
7440-38-2	Arsenic	, /Sd	17.5	, -	12.0	, ¬	0.6		8.8		27.9	7	33.8	٦,	27.4	7
7440-39-3	Darium	, ,	<u>}</u> '	,	:		;		ო	-,	:		5.3	٦,	ı	
7440-47-3	Chromium	1/Bv/	12.2		3.2	ר	ł		:		ì		6.6	J	1	
7440-48-4	Cobalt	7/6vi	4	۰	:		ı		1		1		1		1	
7440-92-1	Lead	1/6/	22.1	7	13.9	٦	41.2	7	17.3	7	ı				1	,
7440-02-0	Nickel	1/8/1	14.1 1.4	7	ī		ı		8.7	7	12.		31.6	¬	8.7	-
7440-31-5	Tin	1/B/	28.7	7	28.4	-	1		ı		:		:		33.5	. د
7440-62-2	Vanadium	1/B/	25.7	7	5		11.4	7	11.4	7	11.2	י	21.5	<u>ب</u>	16.4	ت
7440-66-6	Zinc	1/8/	ı		;		;		:		1		3 5		:	
5955-70-0	Cyanide	1/6/	_		2.4	7	;		6.	٠,	;		;		:	

Suffix "D" on Sample No. Indicates a duplicate sample to the corresponding environmental sample. Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C. Notes:

Conc. = concentration.

Qual. = qualifier. $\mu g/t = \text{micrograms per liter.}$ - = analyte not detected.

"J" = estimated value.

	S	hemicals of l	Potential Cor	Table 4-2 Chemicals of Potential Concern Detected in Surlace Water at SWMU 50, April 1992	Table 4-2 cted in Surfac	e Water	at SWMU 50,	April 1992	O.		
				Groups 1 and II RFA SV Report U.S. Naval Station Mayport, Florida	s tand II RFA SV Rep U.S. Naval Station Mayport, Florida	oort					
			***		Background Screening Value*	ound Value	Ambient Water Quality Criteria ⁵	Vater teria ⁵	Class III	Analyte	
Analyte	Frequency of Detection	Range of Reporting Limits	Detected Concentrations (*)²	Mean of Detected Concentrations ³	Mayport Turning Basin	St. Johns River	For Protection of Aquatic Life: Acute/Chronic	For Protection of Human Health	Surface Water Standards	CPC? (Yes/No)	Reason7
Volatiles (µg/f)											
No analytes detected							•	,			
Semivolatiles (µg/f)											
No analytes detected											
Pesticides/PCBs (µg/f)	€										
No analytes detected											
Inorganics (mg/f)						•	9	900	7 300	Ş	Z Z
Antimony	5/6	10.9 to 10.9	14.2 to 21.4	17.8	2	2	1,500/500	45,000	35°,4	2 5	
Arsenic	9/9	E N	27.4 to 50.6	36.5	2	2	.69/36	0.0175	2 :	2 S	-
Barium	9/9	NR RN	8.9 to 33.8	21.3	12.2	15.2	NA/NA	≨ :	₹ (20 - 1 10 - 1	٥
Cadmium	2/6	2.9 to 2.9	2.2 to 5.3	3.8	11.6	12.2	43/9.3	¥ Ž	50 E	2 4	2
Chromium	3/6	2.1 to 2.1	3.2 to 12.2	7.3	2	2	1,100/50	3,433,000	G :	2 5	ē Č
Cobalt	1/6	3.6 to 3.6	4 to 4	4	2	2	NA/NA	ž :	e e	\$₽	
Lead	3/6	1.4 to 13	13.9 to 29.3	21.8	2	9	220/8.5	¥ Z	20.0	SØL ;	
Nicket	2/6	3.8	5.3 to 31.6	14.4	오	2	75/8.3	5	හ. තේ	Se .	
i i	3/6	26.4 to 26.4	28.4 to 33.5	30.2	17	19.8	NA/NA	NA A	¥.	√8	
Vanadium	9/9	χ Ε	11.2 to 25.7	16.9	Q	3.6	NA/NA	Y Y	₹	Xes	
Zinc	1/6	4.8 to 44.3	94 to 94	94	4.2	99 99	92/86	Ϋ́	98	Se :	ſ
Cyanide	2/6	1.8 to 1.8	1.4 to 2.4	1.9	0.96	2	1/NA	¥	-	٤	
See notes on next page	age.										

Chemicals or Potential Concern Detected in Surface Water Samples at SWMU 50, April 1992 Table 4-2 (Continued)

Groups I and II RFA SV Report U.S. Navał Station

		Reason7
	Analyte	CPC? (Yes/No)
	Class (III	ੱ <i>ਲ</i> ੈ
	Vater iterla ⁵	For Protection of Human Health
	Ambient Water Quality Criterla ⁵	For Protection of Aquatic Life: Acute/Chronic
	Background Screening Value*	St. Johns River
Mayport, Florida	Backg Screenin	Mayport Turning Basin
Maypor		Mean of Detected
	Range of	٦٨
		Hange of Reporting Limits
	-	Frequency of Detection ¹
		Analyte

Value indicated by asterisk is the average of a sampte and its duplicate. For duplicate samples having one nondetected values, 1/2 the contract required quantitation limit Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected values).

The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected including values qualified as "J"; it does not include those (CRQL) and contract required detection limit (CRDL) is used as a surrogate.

The background screening value is twice the average of detected concentrations for inorganic analytes in background samples. Organic values are one times the mean of samples where the analyte was not detected ("U," or "UJ"qualitiers) and rejected ("R" qualitier).

Values are taken from USEPA Water Quality Criteria Summary, Office of Science and Technology, Health and Ecological Criteria Division, Washington, D.C., May 1, 1991. detected concentration. Organic values are included for comparison purposes only.

Values are taken from Surface Water Quality Standards, Chapter 62-302, Florida Administrative Code, amended January 1995. Analytes were included or excluded from the risk assessment for the following reasons: •

= the maximum detected concentration did not exceed the Ambient Water Quality Criteria for the Protection of Marine. Aquatic organisms and the analyte will not be = the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at background locations considered further. 8

H = the maximum detected concentration did not exceed the Ambient Water Quality Criteria for the Protection of Human Health from the Ingestion of fish and the analyte will not be considered further.

M = the maximum detected concentration did not exceed the Marine Surface Water (Class III) Surface Water Quality Standards and the analyte will not be considered

Proposed criteria.

The value is based on trivalent form of arsenic

10 The value is based on the total concentration of arsenic.

"The value is based on chromium hexavalent form.

12 The value is based on chromium trivalent form.

The average of a sample and its duplicate is used for all table calculations. Notes:

Sample locations include: 50SW11; 50SW21; 50SW31; 50SW41; 50SW51; 50SW61 Duplicate sample locations include: 50SW31DUP

St. Johns River - MPT-B-SW113; MPT-B-SW14; MPT-B-SW15 Background sample locations include: Turning Basin - MPT-B-SW10; MPT-B-SW11; MPT-B-SW12

NR = not reported; analyte detected in each sample; Duplicate background sample locations include: Turning Basin - MPT-B-SW12DUP CPC = chemicals of potential concern.

reporting limits are same as range of detected concentrations. ND = not detected in any background samples.

not available. ₹ $\mu g/t = \text{micrograms per kilograms.}$ PCBs = polychlorinated biphenyls. milligrams per kilograms.

7/gm

<u>Sediment Samples</u>. Tables 4-3 and 4-4 summarize the validated analytical results for SVOCs and inorganic target analytes detected in sediment samples (saturated) paired with surface water samples collected during 1992 at SWMU 50. Tables 4-5 and 4-6 summarize the validated analytical results for SVOCs and inorganic target analytes detected in sediment samples (unsaturated) collected during 1992 at SWMU 50. Table 4-7 summarizes the validated analytical results for SVOCs, pesticides, and inorganic target analytes detected in sediment samples collected at SWMU 50.

A summary of frequencies of detection, range of detection limits, range of detected concentrations, arithmetic mean, and bench mark comparison values are provided in Table 4-7. The target analytes detected in the environmental samples were compared to background sediment samples collected from Mayport Turning Basin and the St. Johns River (ABB-ES, 1995b), and bench mark values from The Potential for Biological Effects of Sediment-sorbed Contaminants Tested in the National Status and Trends Program, NOAA (Long and others, 1993), and Approach to the Assessment of Sediment Quality in Florida Coastal Waters (MacDonald, 1994). Values are also shown in Table 4-7 for cleanup goals for Military Sites in Florida (FDEP, 1995); however, these values do not represent potential adverse effects to ecological receptors and were not used to determine whether the analyte was a CPC.

Target analytes detected in the sediment samples that were paired with the surface water samples consist of 8 SVOCs (bis(2-ethylhexyl)phthalate, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)-fluoranthene, and benzo(a)pyrene) (Table 4-3) and 14 inorganics (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, vanadium, zinc, and cyanide). Pesticides and PCBs were not detected in these sediment samples (Table 4-4).

Target analytes detected in the sediment samples from dry sections of the western and eastern dredge material holding areas consist of 10 SVOCs (fluoranthene, pyrene, butylbenzylphthalate, benzo(a)anthracene, chrysene, bis(2-ethylhexyl)phthalate, di-n-octylphthalate, benzo(b)fluoranthene, benzo(k)fluoranthene, and benzo(a)pyrene) (Table 4-5) and 15 inorganics (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, silver, vanadium, zinc, and cyanide) (Table 4-6).

4.4 PRELIMINARY RISK EVALUATION. The following presents a preliminary risk evaluation of surface water and sediment samples collected at SWMU 50.

Surface Water. SVOCs, pesticides, and PCBs were not detected in the surface water samples. Chemicals of potential concern consist of eight inorganic analytes (arsenic, barium, cobalt, lead, nickel, tin, vanadium, and zinc) detected in the surface water samples at concentrations exceeding either background screening values (surface water samples collected from Mayport Turning Basin and the St. Johns River) or bench mark values.

Arsenic was detected in each of the surface water samples and duplicate, but was not detected in the background surface water samples. Arsenic was detected in three surface water samples at concentrations that exceed the AWQC chronic criteria (36 $\mu g/\ell$) for protection of aquatic life and the Class III marine

District	Mayport, Florida 21541 2			Org	Organic Ans	alytes	Table 4-3 salytes Detected in Sediment Samples (Saturated) at SWMU 50 Groups Land II RFA SV Report	d in Sec	Table 4-3 ed in Sediment Samples	3 Sample SV Repo	s (Satui	rated) &	ıt SWM	U 50				
Sediment	Sediment Sediment			:				U.S.	Naval Sta yport, Flor	ation 'ida								ļ
Sediment	Sediment Sediment	Analyte Ba	tch No.:		215	-	215	#	215		2154	=	215	=	215	=	216	.
MPT-50-SD01 MPT-50-SD02 MPT-50-SD02 MPT-50-SD03 MPT-50-SD03 MPT-50-SD04 MPT-50-SD05 MPT-50-SD05 MPT-50-SD04 MPT-50-SD05 MPT-50-SD05 MPT-50-SD05 MPT-50-SD05 MPT-50-SD04 MPT-50-SD05	MPT-50-SD01 MPT-50-SD02 MPT-50-SD02 MPT-50-SD03 MPT-50-SD04	Sample Ma	atrix:		Sedir	ient	Sedin	nent	Sedin	ent	Sedim	ent	Sedin	ent	Sedin	ent _	Sedi	nent
Non-Nexue LEftythexyth Leftythexyth <td> MPT-50-SD-01 MPT-50-SD-02 MPT-50-SD-02 MPT-50-SD-03 MPT-50-SD-04 MPT-</td> <td>Sample Lo</td> <td>cation:</td> <td></td> <td>MPT-50</td> <td>SDOT</td> <td>MPT-50</td> <td>SD02</td> <td>MPT-50</td> <td>SD02</td> <td>MPT-50-</td> <td>SD03</td> <td>MPT-50</td> <td>-SD04</td> <td>MPT-50</td> <td>SDOS</td> <td>MPT-5</td> <td>9.SD08</td>	MPT-50-SD-01 MPT-50-SD-02 MPT-50-SD-02 MPT-50-SD-03 MPT-50-SD-04 MPT-	Sample Lo	cation:		MPT-50	SDOT	MPT-50	SD02	MPT-50	SD02	MPT-50-	SD03	MPT-50	-SD04	MPT-50	SDOS	MPT-5	9.SD08
d: Corrrrow Name Unite Cone. Qual. Cone.	d: Od.123/92 Od.12	Samote No	::		MPT-50-	SD-01	MPT-50-	SD-02	MPT-50-8	3D-02D	MPT-50-	SD-03	MPT-50-	SD-04	MPT-50-	SD-05	MPT-5(-SD-08
mmon Name Unite Conc. Qual.	Qual. Conc. Conc. <th< td=""><td>Date Samo</td><td>oled:</td><td></td><td>04/23</td><td>/92</td><td>04/23</td><td>76/</td><td>04/23</td><td>/92</td><td>04/23</td><td>76/</td><td>04/23</td><td>/92</td><td>04/23</td><td>/92</td><td>04/2</td><td>3/92</td></th<>	Date Samo	oled:		04/23	/92	04/23	76/	04/23	/92	04/23	76/	04/23	/92	04/23	/92	04/2	3/92
bis(2-Ethythexyl) µg/kg 250 J 89 J 250 J phthalate phthalate µg/kg 200 J 530 J 120 J 250 J Fluoranthene µg/kg 400 J 160 J 260 J Benzo[k]fluoranthene µg/kg	J 530 J 89 J J 400 J 160 J 400 J 160 J 85 J	CAS RN	Common Neme	Unite	Cane.	Qual.	Cone.	Quel.	Сопс	Quel	Сопс.	Qual.	Conc.	Quel.	Cono.	Qual.	Corro.	Ouel.
Fluoranthene µg/kg 200 J 530 J 120 J 120 J Pyrene µg/kg 400 J 160 J 260 J Benzo[a]anthracene µg/kg 190 J Benzo[b]fluoranthene µg/kg <t< td=""><td>J 530 J 120 J 400 J 160 J</td><td>117-81-7</td><td>bis{2-Ethythexyl}</td><td>6¥/6π</td><td>:</td><td></td><td>250</td><td>7</td><td>;</td><td></td><td>ı</td><td>_</td><td> 68</td><td>7</td><td>250</td><td>r</td><td>8</td><td>7</td></t<>	J 530 J 120 J 400 J 160 J	117-81-7	bis{2-Ethythexyl}	6¥/6π	:		250	7	;		ı	_	 68	7	250	r	8	7
Pyrene µg/kg 400 J 160 J 260 J Benzo[a]anthracene µg/kg 190 J Chrysene µg/kg 180 J Benzo[b]fluoranthene µg/kg	160 J	206-44-0	Fluoranthene	µ9/kg	200	7	ı		530	<u>ئ</u>	;		120	7	120		1	
Benzo[a]anthracene µg/kg 190 J Chrysene µg/kg 85 J 230 J Benzo[b]fluoranthene µg/kg 140 J Benzo[a]pyrene µg/kg	85 J	129-00-0	Pyrene	, µ9/kg	200	7	;	•	8	۵.	1		991	7	260	~	t	
Chrysene µg/kg 85 J 230 J 13 13 Benzo[b]fluoranthene µg/kg 140 J Benzo[a]pyrene µg/kg 150 J	85	56-55-3	Benzo[a]anthracene	µg/kg	;		;		1		ı		i		190	7	4	ټ
Benzo[b]fluoranthene \(\theta g/kg \) - - 180 J Benzo[k]fluoranthene \(\theta g/kg \) - - 140 J Benzo[a]pyrene \(\theta g/kg \) - - 150 J		218-01-9	Chrysene	µg/kg	ı		;		1		:		8	7	230	7	130	7
Benzo[k]fluoranthene µg/kg 140 J Benzo[a]pyrene µg/kg 150 J	Environmental Support Activity (NEESA) Level C.	205-99-2	Benzo[b]fluoranthene	1/6/kg	:		1		ī	•	;		ı		180	7	:	
Benzolalpyrene 150 J	Environmental Support Activity (NESA) Level C.	207-08-9	Benzo[k]fluoranthene	<i>µ</i> 9/kg	;		ı		ı		1		1		140	7	;	
		50-32-8	Benzolalpyrene	µg/kg	;		ı		1		:		ļ		150	7	,	

Conc, = concentration.

Qual, = qualifier.

µg/kg = milligrams per kilogram.
-- = analyte not detected.
"J" = estirnated value.

			Inorgar	nic Ana	lytes De	tected	Tabl	Table 4-4 Inorganic Analytes Detected in Sediment Samples (Saturated) at SWMU 50	nples (S	aturated) at SWI	MU 50				
		·				Grou	ups Land II U.S. Nav Mavport	Groups I and II RFA SV Report U.S. Naval Station Mavport, Florida	eport							
					21541	=	21541	41	21541	1	21541	_	21541	_	21541	=
Analyte Batch No.:	л No.:		21341		Codiment		Sediment		Sediment	nent	Sediment	ent	Sediment	ent ent	Sediment	ent
Sample Matrix:	<u>.</u> ≌ :		Sediment		MPT-50-SD02	SD02	MPT-50-SD02	-SD02	MPT-50-SD03	-SD03	MPT-50-SD04	SD04	MPT-50-SD05	SDOS	MPT-50-SD06	.SD06
Sample Location	ation		100 00 1 1W1		MOT 50 SD.02	Sp. Co.	MPT-50-SD-02D	SD-02D	MPT-50-SD-03	-SD-03	MPT-50-SD-04	SD-04	MPT-50-SD-05	SD-05	MPT-50-SD-06	90-QS
Sample No.:	ţ		04/23/92	1/95	04/23/92	3/92	04/23/92	3/92	04/23/92	3/92	04/23/92	76/	04/23/92	/92	04/23/92	1/92
Case Sampled	10	Units	Conc.	Oual	Conc.	Qual	Conc.	Qual.	Conc.	Oual	Cone.	Qual.	Conc.	Qual.	Conc.	Qual.
X	Name								,		1		1	•	ŀ	
7440-36-0	Antimony	mg/kg	6.4	- -	1				0.74	_	16.4		15		12.8	
7440-38-2	Arsenic	mg/kg	15.6		16.8		<u>0</u>		5 6	, -	8 90	-	28.8	_	28.3	ה
7440-39-3	Barium	mg/kg	23.4	7	21.9	7	24.7	- -	, K	י	0.02	, -		· -	67	7
7440-41-7	Beryllium	mg/kg	1.3	_	1.3	- -	4.	7	;		4.	,	<u>.</u>		!	
7440-43-9	Cadmium	mg/kg	1.7	٦	i		1		1		: ;		: 4		40.3	
7440-47-3	Chromium	mg/kg	50.8		36.4		47.8		- -	~	6.2.5	-		-	4	
7440-48-4	Cobalt	mg/kg	5.9	٦ 	4.6	7	6.4	-	1		, c	י		>	20.4	,
7440-50-8	Copper	mg/kg	18.8		38.2		26.1	<u>.</u>	<u>.</u>	ر -	5.12		- 6		28.1	
7440-92-1	Lead	mg/kg	18.7		25.5		21.6	_	. .		4.16	-	7 6	-	13.3	
7440-02-0	Nickel	mg/kg	16.3	٦	11.8	ר		-	:	_	1.4.	- -	5.0	· -		
7440-49-2	Selenium	mg/kg	12	_	1		1		:	,	0.72	- -	0 0	·	494	
7440-62-2	Vanadium	mg/kg	47.4		38.5		46.4		=	- -	6.0 6.0		5 G		, e	
7440-66-6	Zinc	mg/kg	74.8		78.3		77.8		6.4		79.9		56 		<u></u> _	
5955-70-0	Cyanide	mg/kg	0.52	7			-		1.2	_			:			
Notes: Lal	Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C. Suffix "D" on the Sample No. indicates a duplicate sample to the corresponding environmental sample.	alidated at Sample No	Naval En	ergy and s a duplic	Environm	ental Supl e to the c	port Activity orrespondi	Environmental Support Activity (NEESA) Level C. ate sample to the corresponding environmental s	Level C. mental sa	mple.						
_																

mg/kg = mitligrams per kilogram. "J" = estimated value.

> Conc. = concentration. Qual. = qualifier. - = analyte not detected.

	Table 4-5 Organic Analytes Detected in Sediment Samples (Unsaturated) at SWMU 50	s Detecte	Ta d in Sedin	Table 4-5 liment Sam	ples (Uns	aturated)	at SWML) 50		, <u> </u>
			Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	s I and II RFA SV F U.S. Naval Station Mayport, Florida	Report					
Analyte Batch No.:	No.:		21541	11	21541	41	21541		21541	=
Sample Matrix:	×		Sail	_	Soil	_	Soil	=	Soli	
Sample Location:	tion:		MPT-50-SD07	SD07	MPT-50-SD07	-SD07	MPT-50-SD08	SD08	MPT-50-SD08	- 800s
Sample No.:			MPT506SS01	18801	MPT50BS01	BS01	MPT50SS02	SS02	MPT50BS02	3802
Date Sampled:	÷		04/23/92	/92	04/23/92	76/1	04/23/92	76/	04/23/92	/92
Sample Depth (ft bls)	h (ft bls)		0 to 0.5	0.5	3 to 4	4	0 to 0.5	0.5	3 to 4	4
CAS RN	Соттол Name	Units	Conc.	Qual.	Conc.	Qual.	Conc.	Oual.	Conc.	Qual.
206-44-0	Fluoranthene	64/6#	:		1		:		ı	
129-00-0	Pyrene	₽9/kg	;		į		1		1	
85-68-7	Butylbenzylphthalate	µg/kg	;		1		1		1	
56-55-3	Benzo[a]anthracene	ра/ка	:		1		:		ì	
218-01-9	Chrysene	ng/kg	:		1		I		ı	
117-81-7	bis(2-Ethylhexyl) phthalate	вя/вл	51	7	:		:		1	
117-84-0	Di-n-Octyl phthalate	₩/kg	ı		:		i		;	
205-99-2	Benzo[b]Fluoranthene	ва/вл	ı		ı		:		ı	
207-08-09	Benzo(k)Fluoranthene	r⁄g/kg	1		ı		ŀ		ı	
50-32-8	Benzo[a]Pyrene	µ9/kg	1		1		t		-	
See notes at end of table.	end of table.					i				

	Table 4-5 (Continued) Organic Analytes Detected in Sediment Samples (Unsaturated) at SWMU 50	. Detected	Table 4-	Table 4-5 (Continued) in Sediment Samples	nued) mples (Ur	saturate	ed) at SWN	AU 50		
	1		Groups I and II RFA SV Report U.S. Navat Station Mavport, Florida	s I and II RFA SV F U.S. Navat Station Maybort, Florida	V Report ion 1a			İ		
			215.41		21541		21541		21541	
Analyte Batch No.:	h No.:	•	<u> </u>		3		S.		Soil	
Sample Matrix:	iķi		Soil		E C		5	9		Ş
Sample Location:	ation:	-	MPT-50-SD11	SD11	MPT-50-SD11	SD11	MPT-50-SD12	2012	MP1-50-SU1Z	Z 108
Sample No.:			MPT50SS05	SS05	MPT50BS05	3505	MPT50SS06	906	MPT-50-BS-06	3S-06
Date Sampled:	·		04/23/92	76/	04/23/92	/92	04/23/92	35	04/23/92	92
	14 (18 b) (19 b)		0 to 0.5	0.5	3 to 4	4	0 to 0.5	.5	3 to 4	•
Sample Deptin (it bis).	tn (n Dis);	- diel	3000	<u> </u>	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
CAS RN	Соттол Мате		3		130	7	,		ì	
206-44-0	Fluoranthene	6y/g/	:		3	•			•	
129-00-0	Pyrene	μg/kg	ì		130	- -	:		,	
85-68-7	Butylbenzylphthalate	<i>µ</i> 9/kg	;		: 		8,530	¬	ì	
56-55-3	Benzo[a]anthracene	µg/kg			100	-	1		:	
218-01-9	Chrysene	µg/kg	1		120	7	1		25	-
117-81-7	bis(2-Ethylhexyl) phthalate	µg/kg	65	¬	760	- -	15,300		1	
117-84-0	Di-n-octyl phthalate	ид/ка	ł		:	_	06	- 7	1	
205-99-2	Benzo[b]fluoranthene	bg/kg	1		9	7	!	_	 94	- -
207-08-09	Benzo[k]fluoranthene	64/6n	1		83		l 	_	!	
50-32-8	Benzo[a]pyrene	µg/kg	;		7	-	,		:	
Notes: Lat	Notes: Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C.	ll Energy and	1 Environm	ental Supp	ort Activity (NEESA) Le	yel C.			
<u>~</u>	SWMU = solid waste management unit. It bls = feet below land surface. Conc. = concentration.	nt unit.								
<u> </u>	upal quaminor. pg/t = micrograms per liter = analyte not detected. *** = antimated white									
	= estillated varies									

	Table 4-6 Inorganic Analytes Detected in the Sediment Samples (Unsaturated) at SWMU 50	Detected	Ta I in the Se	Table 4-6 Sediment S	amples (L	Jnsaturat	ed) at SW	/MU 50		
			Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	s tand II RFA SV F U.S. Naval Station Mayport, Florida	Report					
Analyte Batch No.:	th No.:		21541	=	21541	11	21541	14	21541	#
Sample Matrix:	:::X:::		Soil		Soil	_	Soil	=	Soil	=
Sample Location:	ation:		MPT-50-SD07	SD07	MPT-50-SD07	-SD07	MPT-50-SD08	-SD08	MPT-50-SD08	-SD08
Sample No.:			MPT50SS01	SS01	MPT50BS01	BS01	MPT50SS02	SS02	MPT50BS02	BS02
Date Sampled:	:pe		04/23/92	/92	04/23/92	/92	04/23/92	76/8	04/23/92	/92
Sample Depth (# bls)	oth (# bls)		0 to 0.5	0.5	3 to 4	4	0 to 0.5	0,5	3 to 4	4
CAS BN	Common Name	Units	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual
7440-36-0	Antimony	mg/kg	;		2.8	ſ	:		3.2	~
7440-38-2	Arsenic	mg/kg	0.7	7	0.85	7	0.73	- -	9.0	ה
7440-39-3	Barjum	mg/kg	2	״	2.6	۵,	2.7	ה	2.5	7
7440-41-7	Beryllium	mg/kg	:		ı		ı		1	
7440-43-9	Cadmium	mg/kg	;		1		:		:	
7440-47-3	Chromium	mg/kg	2	ה	1.8	יי	3.3		2.6	¬
7440-48-4	Cobalt	mg/kg	1		1		4.	۵.	1	
7440-50-8	Соррег	mg/kg	4.2	7)	3.1	7	2.4	٦	1 .9	٦
7440-92-1	Lead	тв/ка	0.58	יכ	4.2		1.4		ю —	
7440-02-0	Nickel	mg/kg	89. 9.09	יי	3.1		8	٦	6.	¬
7440-49-2	Selenium	mg/kg	:		ı		:		1	
7440-22-4	Silver	mg/kg	i		1		t		:	,
7440-62-2	Vanadium	mg/kg	96:0	<u>_</u>	0.83	ن	6.	-	2	- -
7440-66-6	Zinc	mg/kg	7.5		1.7		11.7		7.9	
5955-70-0	Cyanide	mg/kg	1		i		:		;	
Cee notes	See notes at end of table.									
22/21/20										

	Table 4-6 (Continued) Inorganic Analytes Detected in Sediment Samples (Unsaturated) at SWMU 50	tes Detect	Table 4 ed in Sed	Table 4-6 (Continued) I in Sediment Sample	nued) mples (U	Insaturat	ed) at SWI	MU 50		
			Groups Ian U.S. May	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	V Report on a					
Analyte Batch No.	No.		21541	11	21541	11	21541		21541	_
Samole Matrix:	: X		Soil	_	Soil		Soil		Soff	<u>-</u>
Sample Location:	ation:		MPT-50-SD09	SD09	MPT-50-SD09	SD09	MPT-50-SD10	0100	MPT-50-SD10	SD10
Samole No.			MPT50SS03	SS03	MPT50BS03	BS03	MPT50SS04	S04	MPT50BS04	S04
Date Sampled			04/23/92	7)95	04/23/92	76/1	04/23/92	92	04/23/92	92
Samole Depth (ft bls)	oth (ft bls)		0 to 0.5	0.5	3 to 4	4	0 to 0.5	55	3 to 4	4
CAS RN	Common Name	Units	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony	mg/kg	;		i		i		;	
7440-38-2	Arsenic	mg/kg	1.5	っ	2.5		5.7		6.7	
7440-39-3	Barium	mg/kg	2:5	ث.	.e.	r	16.9	٦.	12.4	¬
7440-41-7	Beryllium	mg/kg	;		1		0.82	7	0.59	<u> </u>
7440-43-9	Cadmium	mg/kg	1		1		1		4.6	
7440-47-3	Chromium	mg/kg	8		6.3		25.4		18.6	
7440-48-4	Cobalt	mg/kg	ı		1		3.7	7	2.5	-
7440-50-8	Copper	mg/kg	4.7	~	2.5	7	9.7		1.1	
7440-92-1	Lead	mg/kg	1.7		2.7		13.4		13.5	
7440-02-0	Nickel	mg/kg	26.1	~	3.3	7	5.8 8.	¬	7.1	
7440-49-2	Selenium	mg/kg	;		1		;		!	
7440-22-4	Silver	mg/kg	:		¦ 		:		t	
7440-62-2	Vanadium	mg/kg	1.4	7	4.5	-	28.8		18.1	
7440-66-6	Zinc	mg/kg	11.3		6 0		43.1		44.2	
5955-70-0	Cyanide	mg/kg	;		<u> </u>		ī		:	
See notes	See notes at end of table.									

	Table 4-6 (Continued) Inorganic Analytes Detected in Sediment Samples (Unsaturated) at SWMU 50	es Detect	Table 4- ed in Sedi	Table 4-6 (Continued) I in Sediment Sample:	ned) mples (Un	saturate	d) at SWN	MU 50		
			Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	s I and II RFA SV F U.S. Naval Station Mayport, Florida	' Report in					-
Analyte Batch No.:	th No.:		21541	-	21541	н	21541	=	21541	=
Sample Matrix:	rix:		Soil		Soil		Soll	_	Sol	_
Sample Location:	ation:		MPT-50-SD11	SD11	MPT-50-SD11	SD11	MPT-50-SD12	SD12	MPT-50-SD12	-SD12
Sample No:			MPT50SS05	3805	MPT50BS05	3805	MPT50SS06	9088	MPT50BS06	BS06
Date Sampled:	ēd:		04/23/92	/92	04/23/92	/92	04/23/92	/92	04/23/92	76/
Sample Depth (ft bis):	(ft bls):		0 to 0.5	3.5	3 to 4	4	0 to 0.5	3.5	3 to 4	4
CAS BN	Common Name	Units	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony	mg/kg	;		1		3.2	ŋ	36.2	
7440-38-2	Arsenic	mg/kg	13.8		15.5		6.1	ָּד	2.7	
7440-39-3	Barium	mg/kg	29.5	7	24.1	7	9.5	- -	6.9	٦
7440-41-7	Beryllium	mg/kg	1.5		4,	7	:		ŀ	
7440-49-9	Cadmium	mg/kg	-	٦	1.7		1		;	
7440-47-3	Chromium	mg/kg	43.2		40.4		6.4		Ą	
7440-48-4	Cobalt	mg/kg	6.5	7	6.3	7	1.2	¬	4.	¬
7440-50-8	Copper	mg/kg	23.1		18.7		23		13.4	
7440-92-1	Lead	mg/kg	41.4		49.4		28.3			
7440-02-0	Nickel	mg/kg	13.5		=	7	1.8	ה	3.4	¬
7440-49-2	Selenium	mg/kg	0.77	7	0.7	ר	;		1	
7440-22-4	Silver	mg/kg	0.54	7	;		;		ı	,
7440-62-2	Vanadium	mg/kg	49.2		49.2		3.3	٠	9	¬
7440-66-6	Zinc	mg/kg	84.5		78.6		38.1		23.3	
5955-70-0	Cyanide	mg/kg	ı		1		9.4		4.4	3
Notes: Lat	Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C.	ergy and En	vironmental	Support Act	ivity (NEES/	a) Level C.				
SS # S	SWMU = solid waste management unit. It bis = feet below land surface. Conc. = concentration.	ž <u>i</u>	mg/kg = rr - = analyte "J" = estim	g/kg = milligrams per l = analyte not detected. " = estimated value.	mg/kg = milligrams per kilogram. – = analyte not detected. "J" = estimated value.					
8	Qual, = qualifier.							ŀ		

				Tabl	Table 4-7								
		Chemica	als of Potential	Chemicals of Potential Concern in Sediment Samples Collected at SWMU 50	diment Sa	mples (Collecte	d at SV	/MU 50	_			
				Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	s I and II RFA SV Rep U.S. Naval Station Mayport, Florida	סיד							
	1	3	jo acced	Mean of	Background Screening Value	und Value ⁴	Long and Others	and ers	MacDonald ^e	nald®	Cleanup goals for	Analyte CPC	Reas-
Analyte	Frequency of Detection ¹	Reporting	Detected Concentrations ²	Detected Concentrations ³	Mayport Turning Basin	St. Johns River	ER-L	ER-M°	TEL'	PEL	Military Sties In Florida	(Yes/ No)	on o
Volatiles (µg/kg)													
Not analyzed													
Semivolatiles (µg/kg)			0	Ç	Ş	2	261	1,600	74.8	693	4,900	Yes	
Benzo[a]anthracene	3/18	350 to 1,000	74 to 190	7	2	1	i		6	Ş	Ş	>	
Benzo(a]pyrene	2/18	350 to 1,000	71 to 150	=	2	2	430 0	1,600	χ. 20 20	§ ;	80 .	3	
Benzo[b]fluoranthene	3/18	350 to 1,000	46 to 180	109	8	2	₹	¥	X	₹	006,4	9 1	
Benzo[k]fluoranthene	2/18	350 to	93 to 140	211	8	Š	¥ ¥	¥	¥	₹	47,000	\$ 0	
Butylbenzylphthalate	1/18	350 to 1,000	8,530	8,530	148	2	¥ Ž	Š	¥	∢ Z	300,000,000	468 2	
Chrysene	5/18	350 to 1,000	52 to 230	123	9	2	384	2,800	80	846	490,000	s 6 6	
Di-n-Octyl-phthalate	1/18	350 to 1,000	06	8	<u>8</u>	2	¥	₹	¥ !	¥ ;	32,000,000	n 6 p 6	
bis(2-Ethylhexyl)-	8/18	350 to 890	51 to 15,300	2,123	2		¥	₹	1 82	2,647	000,000	2 5	
Fluoranthene	5/18	350 to 690	120 to 515	217	97	2	009	5,100	21.23	144	44,000,000	\$	
Pyrene	5/18	350 to 690	130 to 450	240	2	2	465	2,600	<u>5</u>	966°.	00,000,78	2	
Pesticides/PCBs (µg/kg)	kg)												
No analytes detected													
See notes at end of table.	able.												

		Š	Chemicals of Pote	Table 4-7 (Continued) Potential Concern Sediment Samples Collected at SWMU 50	Table 4-7 (Continued)	inued)	S Colle	cted at	SWMU	20			
			÷	Groups I: U.S Ma	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	SV Report ion ta					Ì		
ļ	Ĺ	70	o accept	Mean	Background Screening Value ⁴	ound Value*	Long and Others	and	MacDonald ⁸	nald ^e	Cleanup goals for	Analyte	•
Analyte	Prequency of Detection ¹	Reporting Limits	Detected Concentrations	Detected Concentrations ³	Mayport Turning Basin	St. Johns River	ER-L	ER.M°	NOEL?	PEL	Military Sites in Florida	(Zes/ No)	Reason 10
Inorganics (mg/kg)	1/kg)			·									
Antimony	5/18	2.3 to 6.7	2.8 to 36.2	10.4	2	Q	¥	¥	Š	¥ Z	210	Yes	
Arsenic	18/18	R R	0.6 to 16.4	7.2	18	1.22	8.2	5	7,24	41.6	3.0	Š	æ
Barium	18/18	Æ	2 to 29.2	13.7	33.8	6.4	Ϋ́	Ā	Υ Y	¥	74,000	운	6
Beryllium	9/18	0.12 to 0.29	0.59 to 1.6	£.7	5:	0.12	Υ «	Š Š	¥ X	Y Y	0.2	Yes	
Cadmium	4/18	0.62 to 1.8	1 to 1.7	1,5	Q	Ş	1,2	9.6	9.676	4.21	009	Y 68	
Chromium	18/18	χ Ε	1.8 to 46.3	21.4	53	3,4	8	370	52.3	<u>8</u>	220	운	L, M, N, P
Cobalt	12/18	0.75 to 0.92	1.2 to 6.7	4.4	8.6	2	∀	¥ ¥	ž	¥	110,000	2	6
Copper	18/18	χ Υ	1.9 to 32.2	13.2	130.2	2	9 4	270	18.7	180	72,000	2	6 0
Lead	18/18	æ	0.58 to 49.4	17.2	92	2.2	46.7	218	30.2	112	1,000	∀ 88	
Nickel	17/18	0.93 to 0.93	1.3 to 26.1	9.2	44.6	2	20.9	51.6	15.9	42.8	11,000	운	6
Selenium	5/18	0.25 to 0.75	0.7 to 1.2	0.84	9	2	A A	¥ Z	Υ Y	Ř	006'6	Yes	
Silver	1/18	0.36 to 1.1	0.54	0.54	2	2	-	3.7	0.733	1.7	8,000	욷	o. ∑ ∑
Vanadium	18/18	ĸ.	0.83 to 51.3	22.6	56.2	2.2	Ϋ́	ž	Ä	Υ Y	4,800	2	œ
Zinc	18/18	N.	6.4 to 90.1	43	139.2	3.6	150	410	124	27.1	550,000	욷	c
Cyanide	4/18	0.19 to 0.55	0.52 to 9.4	1.6	Ş	5	¥	A A	₹ ¥	ž	40,000	×88	
See notes on next page.	next page.												

Chemicals of Potential Concern Sediment Samples Collected at SWMU 50 Table 4-7 (Continued)

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

Notes from previous pages.

Value indicated by asterisk is the average of a sample and its duplicate. For duplicate samples having one nondetected values, 1/2 the contract required quantitation limit or Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected values).

The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected including values qualified with a "J"; it does not include those contract required detection limit (CRDL) is used as a surrogate.

The background screening value is twice the average of detected concentrations for inorganic analytes in background samples. Organic values are one times the mean of samples where the analyte was not detected ("U," or "UJ" qualifiers) and rejected ("R" qualifier)

Effects range-low (ER-L) value represents a concentration intended to estimate conditions in which effects would be rarely observed. Source: "Incidence of Adverse Biological Effects within Ranges of Chemical Concentrations in Marine and Estuarine Sediments" by Long and others, National Oceanic and Atmospheric Administration, 1993 detected concentration. Organic values are included for comparison purposes only.

Effects range-median (ER-M) represents the concentration where effects would occasionally occur. Source: "Incidence of Adverse Biological Effects within Ranges of Chemical Concentrations in Marine and Estuarine Sediments" by Long and others, National Oceanic and Atmospheric Administration, 1993.

Threshold Effects Level (TEL) is a concentration at which no effects have been observed in any test species or biological community. Source: "Approach to the Assessment of

Probable Effects Level (PEL) is the lower concentration limits at which adverse effects may first be observed. Source: "Approach to the Assessment of Sediment Quality in Sediment Quality in Florida Coastal Waters," MacDonald, November, 1994.

Values are taken from the Florida Department of Environmental Protection memorandum, Cleanup Goals for Military Sites in Florida, dated April 5, 1995. The values are for the Florida Coastal Waters", MacDonald, November 1994.

Industrial Worker based on a cancer risk and 10° an adjusted hazard quotient of 1.

B = the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at background locations fisted below (for inorganic Analytes were excluded from the risk assessment for the following reasons: Š

M = the maximum detected concentration did not exceed the Effects Range- Medium (ER-M) L = the maximum detected concentration did not exceed the Effects Range-Low (ER-L).

the maximum detected concentration did not exceed the Threshold Effects Level (TEL).

the maximum detected concentration did not exceed the Probable Effects Level (PEL)

The average of a sample and its duplicate is used for all table calculations.

Sample locations include: 50SD01; 50SD02; 50SD03; 50SD04; 50SD06; 50SS01; 50BS01; 50SS02; 50BS03; 50BS03; 50SS04; 50BS04; 50SS05; 50BS05; Notes:

Background sample locations include: Turning Basin - MPT-B-SD10; MPT-B-SD11; MPT-B-SD12. Duplicate sample locations include: 50SD02DUP.

50SS06; and 50BS06

St. Johns River - MPT-B-SD13; MPT-B-SD14; MPT-B-SD15

Duplicate background sample locations include: Turning Basin - MPT-B-SD12DUP

= not detected in any background samples. CPC = chemicals of potential concern. $\mu g/kg = micrograms$ per kilograms. ND = not detected in any backgrour

mg/kg = milligrams per kilograms. PCBs = polychlorinated biphenyls. NA = not available.

surface water standard (50 $\mu g/l$). The AWQC acute criteria (69 $\mu g/l$) for protection of aquatic life was not exceeded.

Barium was detected in each of the surface water samples and duplicate, and was detected in both of the background surface water samples. The highest of the background screening values for barium was detected in the Mayport Turning Basin sample (15.2 $\mu g/l$). Four of the surface water samples contained barium at concentrations that exceeded this background screening value. Currently, there are no AWQC or Class III marine bench mark values established for barium.

Cobalt was detected as a single occurrence, and was not detected in the background samples. Currently, there are no AWQC or Class III marine bench mark values established for cobalt.

Lead was detected in the three samples and duplicate from the western dredge material holding area and not in the eastern dredge material holding area. Lead was not detected in the background sediment samples. Lead was detected in three surface water samples and duplicate at concentrations that exceed the AWQC chronic criteria (8.5 $\mu g/l$) for protection of aquatic life and the Class III marine surface water standard (5.6 $\mu g/l$). The AWQC acute criteria (220 $\mu g/l$) for protection of aquatic life was not exceeded.

Nickel was detected in four of the surface water samples and the duplicate. The corresponding sample to the duplicate did not contain detectable concentrations of nickel. Nickel was not detected in the background samples. Nickel was detected in the surface water samples and duplicate at concentrations that exceed the AWQC chronic criteria (8.3 μ g/ ℓ) for protection of aquatic life and the Class III marine surface water standard (8.3 μ g/ ℓ). The AWQC acute criteria (75 μ g/ ℓ) for protection of aquatic life was not exceeded.

Tin was develues forthieewas dheesmefata wheelfaypupteBurnThe Baghassamplehell9ackggøind6Xscree

The detected concentrations of tin exceeded this background screening value. Currently, there are no AWQC or Class III marine bench mark values established for tin.

Vanadium was detected in each of the surface water samples and in the background samples from Mayport Turning Basin (background screening value 3.6 $\mu g/l$). Each of the samples contained vanadium at concentrations that exceeded the background screening value. Currently, there are no AWQC or Class III marine bench mark values established for vanadium.

Zinc was detected as a single occurrence in a surface water sample collected from the eastern dredge material holding area. The highest of the background screening values for zinc was detected in the Mayport Turning Basin sample (5.8 $\mu g/l$). The detected concentrations of zinc exceeded this background screening value. Zinc was detected in the surface water sample at a concentration that exceeded the AWQC chronic criteria (86 $\mu g/l$) and approached the acute criteria (95 $\mu g/l$) for protection of aquatic life. The detected concentration of zinc (94 $\mu g/l$) also exceeded the Class III Marine surface water standard (86 $\mu g/l$).

<u>Sediment</u>. Pesticides and PCBs were not detected in the sediment samples. Chemicals of potential concern consist of 10 SVOCs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, butylbenzylphthalate, chrysene, dinoctylphthalate, bis(2-ethylhexyl)phthalate, fluoranthene, and pyrene) and six inorganic analytes (antimony, beryllium, cadmium, lead, selenium, and cyanide). The

inorganic analytes were detected in the surface water samples and exceeded either background screening values (surface water samples collected from Mayport Turning Basin and the St. Johns River) or bench mark values.

Because the dredge material holding areas are at capacity and are not likely to be used unless material is removed, a comparison of the CPCs with bench mark values (residential exposure and industrial worker) for FDEP cleanup goals for soil is also made in this section. If an FDEP cleanup goal is not available, the default will be to the proposed Superfund SSL bench mark values. The bench mark values for the residential FDEP cleanup goals and proposed Superfund SSLs are not included in Table 4-7.

Benzo(a) anthracene was detected in three sediment samples and was not detected in the background sediment samples. One of the samples contained benzo(a) anthracene at a concentration (190 μ g/kg) that exceeded the MacDonald TEL (74.8 μ g/kg), but not the PEL (693 μ g/kg). The bench mark values for the ER-L (261 μ g/kg) and ER-M (1,600 μ g/kg) were not exceeded. The detected concentrations of benzo(a) anthracene were below the residential (1,400 μ g/kg) and industrial worker (4,900 μ g/kg) FDEP cleanup goal for soil.

Benzo(a)pyrene was detected in two sediment samples, and was not detected in the background sediment samples. One sample contained benzo(a)pyrene at a concentration (150 $\mu g/kg$) that exceeded the TEL (88.8 $\mu g/kg$) but not the PEL or ER-L and ER-M bench mark values. The detected concentration of benzo(a)pyrene was above the residential (140 $\mu g/kg$) clean up criteria and below the industrial worker criteria (500 $\mu g/kg$).

Benzo(b)fluoranthene was detected in three sediment samples, and was not detected in the background sediment samples. Currently there are no bench mark values established for benzo(b)fluoranthene by Long and others (1993) and MacDonald (1994). The detected concentrations of benzo(b)fluoranthene were below the residential (1,400 μ g/kg) and industrial worker (5,010 μ g/kg) FDEP cleanup goal in soil.

Benzo(k)fluoranthene was detected in two sediment samples, and was not detected in the background sediment samples. Currently there are no bench mark values established for benzo(b)fluoranthene by Long and others (1993) and MacDonald (1994). The detected concentrations of benzo(k)fluoranthene were below the residential (1,400 μ g/kg) and industrial worker (4,900 μ g/kg) FDEP cleanup goal in soil.

Butylbenzylphthalate was detected as a single occurrence (8,530 $\mu g/kg$), and in the background sediment samples from the Mayport Turning Basin. Currently there are no bench mark values established for butylbenzylphthalate by Long and others (1993) or MacDonald (1994). The detected concentrations of butylbenzylphthalate were below the residential (15,000,000 $\mu g/kg$) and industrial worker (300,000,000 $\mu g/kg$) FDEP cleanup goal for soil.

Chrysene was detected in five sediment samples and was not detected in the background sediment samples. One of the samples contained chrysene at a concentration (230 $\mu g/kg$) that exceeded the TEL (108 $\mu g/kg$), but not the PEL (846 $\mu g/kg$). The bench mark values for the ER-L (384 $\mu g/kg$) and ER-M (2,800 $\mu g/kg$) were not exceeded. The detected concentrations of chrysene were below the residential (14,000 $\mu g/kg$) and industrial worker (490,000 $\mu g/kg$) FDEP cleanup goal in soil.

Di-n-octylphthalate was detected as a single occurrence (90 μ g/kg), and was not detected in the background sediment samples. Currently there are no bench mark values established for di-n-octylphthalate by Long and others (1993) and MacDonald (1994).

The detected concentration of di-n-octylpohthalate was less than the residential $(1,500,000~\mu g/kg)$ and industrial worker $(32,000,000~\mu g/kg)$ FDEP cleanup goal in soil.

Bis(2-ethylhexyl)phthalate was detected in eight of the sediment samples and was not detected in the background sample. Four of the 18 sediment samples contained bis(2-ethylhexyl)phthalate at concentrations that exceed the TEL (182 μ g/kg). The detected concentration of bis(2-ethylhexyl)phthalate was less than the residential (45,000 μ g/kg) and industrial worker (100,000 μ g/kg) FDEP cleanup goal in soil.

Fluoranthene was detected in five sediment samples and in the background sediment samples from the Mayport Turning Basin. One of the samples contained fluoranthene at a concentration (530 $\mu g/kg$) that exceeded the TEL (21.23 $\mu g/kg$), and PEL (144 $\mu g/kg$) values. The benchmark values for the ER-L (600 $\mu g/kg$) and ER-M (5,100 $\mu g/kg$) were not exceeded. The detected concentrations of fluoranthene were below the residential (800,000 $\mu g/kg$) and industrial worker (44,000,000 $\mu g/kg$) FDEP cleanup goal in soil.

Pyrene was detected in five sediment samples and not in the background sediment samples. Four out of five samples contained pyrene at a concentration above the TEL (153 $\mu g/kg$) but not the PEL (1,398 $\mu g/kg$). The bench mark values for the ER-L (465 $\mu g/kg$) and ER-M (2,600 $\mu g/kg$) were not exceeded. The detected concentrations of pyrene were below the residential (2,200,000 $\mu g/kg$) and industrial worker (37,000,000 $\mu g/kg$) FDEP cleanup goal in soil.

Antimony was detected in five of the sediment samples and was not detected in the background sediment samples. Currently, there are no bench mark values established for antimony by Long and others (1993) or MacDonald (1994). A single sample contained antimony at a concentration (36.2 mg/kg) that exceeded the residential (26 mg/kg) FDEP cleanup goal but less than the industrial worker (210 mg/kg) cleanup goal in soil.

Beryllium was detected in nine of the sediment samples and in both the St. Johns River and Mayport Turning Basin background samples. The highest of the background screening values (1.5~mg/kg) was detected in the sample from the St. Johns River. One of the samples contained beryllium at the concentration detected in the background sample and one sample contained beryllium at a concentration that exceeded this value (1.6~mg/kg). Currently, there are no bench mark values established for beryllium by Long and others (1993) or MacDonald (1994). Each of the environmental samples contained beryllium at concentrations that exceed residential (0.1~mg/kg) and industrial worker (0.2~mg/kg) cleanup goals in soil.

Cadmium was detected in four of the sediment samples, and was not detected in the background sediment samples. Each of the detected concentrations of cadmium exceeded the TEL (0.676~mg/kg) and three of the samples exceeded the ER-L (1.2~mg/kg). The detected concentrations of cadmium did not exceed the PEL (4.21~mg/kg) or the ER-L (9.6~mg/kg). The detected concentrations of cadmium were below the residential (37~mg/kg) and industrial worker (600~mg/kg) FDEP cleanup goal in soil.

Lead was detected in 18 of the sediment samples and was detected in both of the background sediment samples. The highest of the background screening values (26 mg/kg) was detected in the sample from the St. Johns River. Six of the detected concentrations of lead exceeded the background screening value. Four of the samples contained lead at concentrations that exceeded the TEL (30.2 mg/kg), and one of the samples exceeded the ER-L (46.7 mg/kg). The detected concentrations of lead did not exceed the PEL (112 mg/kg) or the ER-L (218 mg/kg). The detected concentrations of lead were below the residential (500 mg/kg) and industrial worker (1,000 mg/kg) FDEP cleanup goal in soil.

Selenium was detected in five of the sediment samples and was not detected in the background sediment samples. Currently there are no bench mark values established for selenium by Long and others (1993) or MacDonald (1994). Each of the environmental samples contained selenium at concentrations less than residential (390 mg/kg) and industrial worker (8,000 mg/kg) cleanup goals in soil.

Cyanide was detected in four of the sediment samples and was not detected in the background sediment samples. Currently, there are no bench mark values established for cyanide by Long and others (1993) and MacDonald (1994). Each of the environmental samples contained cyanide at concentrations less than residential (1,600 mg/kg) and industrial worker (40,000 mg/kg) cleanup goals in soil.

4.5 CONCLUSIONS AND RECOMMENDATIONS.

4.5.1 Conclusions

<u>Surface Water</u>. SVOCs, pesticides, and PCBs were not detected in the surface water samples. The surface water samples were not analyzed for VOCs. Twelve inorganic analytes were detected including antimony, arsenic, barium, cadmium, chromium, cobalt, lead, nickel, tin, vanadium, zinc, and cyanide (Table 4-1).

Chemicals of potential concern consist of eight inorganic analytes (arsenic, barium, cobalt, lead, nickel, tin, vanadium, and zinc) that were detected in the surface water samples and exceeded either background screening values (surface water samples collected from Mayport Turning Basin and the St. Johns River) or bench mark values (Table 4-2).

The surface water in the western and eastern dredge material holding areas is an ephemeral feature that is present during dredging activities and varies depending on the frequency and amount of rainfall. Target analytes and concentrations present in the surface water are expected to have considerable variation because of variations in the type of water placed in the holding areas (sea water or brackish water and rainwater).

Because the dredge material holding areas do not maintain water for a sufficient duration, use of this area for harvesting of aquatic species is not viable; however, it is a viable area for foraging by birds. Surface water in the dredge material holding areas is discharged to adjacent marsh areas. The marsh areas are a Class III marine environment.

<u>Sediment</u>. Pesticides and PCBs were not detected in the sediment samples. Target analytes detected in the sediment samples consist of 10 SVOCs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, butylbenzylphthalate, chrysene, di-n-octylph-thalate, bis(2-ethylhexyl)phthalate, fluoranthene, and pyrene) and 15 inorganics (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, silver, vanadium, zinc and cyanide) (Tables 4-3 through 4-6).

Chemicals of potential concern consist of the ten SVOCs and six inorganics (antimony, beryllium, cadmium, lead, selenium, and cyanide) (Table 4-7).

Only two of the SVOCs (butylbenzylphthalate and fluoranthene) were detected in background sediment samples. Organic analytes were not eliminated as a chemical of potential concern because of detection in the background samples. Two of the

inorganic target analytes that are chemicals of potential concern (beryllium and lead) were detected at concentrations that exceeded those detected in background sediment samples. The other inorganic analytes (antimony, cadmium, selenium, and cyanide) that are CPCs were not detected in the background sediment samples.

Because bench mark values have not been established by Long and others (1993) and MacDonald (1994) for benzo(k)fluoranthene, butylbenzylphthalate, di-n-octylphthalate, antimony, beryllium, selenium, and cyanide they were considered CPCs. Target analytes that exceeded the TEL were benzo(a)anthracene, benzo(a)pyrene, chrysene, and pyrene. Target analytes that exceeded the ER-L and TEL were fluoranthene, cadmium, and lead. None of the target analytes exceeded values for the ER-M or PEL.

Because the dredge material holding areas are at capacity and are not likely to be used unless material is removed, a comparison was made between the CPCs and bench mark values (residential and industrial worker exposure) for FDEP cleanup goals for soil. Concentrations of benzo(a)pyrene and antimony exceeded FDEP residential soil cleanup goals and concentrations of beryllium exceeded residential and industrial worker soil cleanup goals.

4.5.2 Recommendations Based on the analytical results, ecological diversity measurements and aquatic and sediment toxicity testing appear to be warranted as part of an RFI focused towards conducting an ecological risk assessment. However, before a commitment is made to the focused ecological risk assessment, the SWMU 50 analytical results should be assessed along with the results of the RFI being conducted for the Landfill SWMUs 2, 3, 4, and 5 which are located beneath and adjacent to SWMU 50. Data collected for the RFI was not included in this report because of the more comprehensive analysis performed for the RFI and to avoid redundancy. Both the RFA SV and RFI data will be used to assess additional sampling and analysis required to complete a focused ecological risk assessment for SWMU 50. Recommendations pertaining to the need for a focused ecological risk assessment at SWMU 50 will be made in the RFI report for the Group I SWMUs

The Navy plans to remove some of the dredge material to provide capacity for future maintenance dredging of Mayport Turning Basin. Existing data and data obtained from a focused ecological risk assessment, if required, and corrective measures study, if required, could provide an adequate basis to evaluate use, if any, of the dredge material such as for asphalt or concrete mix for roads.

The possible need for a focused ecological risk assessment is based on the following rationale.

- No pesticides or PCBs were detected in the surface water samples.
- The surface water in the western and eastern dredge material holding areas is an ephemeral feature that is present during dredging activities and varies depending on the frequency and amount of rainfall.
- Target analytes and concentrations present in the surface water are expected to have considerable variation because of the variations in the type of water placed in the holding areas (seawater or brackish water and rainwater).
- Because the dredge material holding areas do not maintain water for a sufficient duration, use of this area for recreation harvesting or aquatic species is not viable. These areas are viable habitat for small mammals, reptiles, and birds.

- Because bench mark values have not been established by Long and others (1993)
 and MacDonald (1994) for benzo(k)fluoranthene, butylbenzylphthalate, di-noctylphthalate, antimony, beryllium, selenium, and cyanide they were considered
 CPCs.
- Target analytes that exceeded the TEL were benzo(a)anthracene, benzo(a)pyrene, chrysene, and pyrene. Target analytes that exceeded the ER-L and TEL were fluoranthene, cadmium, and lead. None of the target analytes exceeded values for the ER-M or PEL.
- Concentrations of benzo(a)pyrene and antimony exceed FDEP residential soil cleanup goals and concentrations of beryllium exceeded residential and industrial worker soil cleanup goals.

5.0 SWMU 56, BUILDING 1552 ACCUMULATION AREA

5.1 SITE DESCRIPTION AND BACKGROUND. SWMU 56 is a hazardous waste accumulation area located south of the squadron helicopter hangar, Building 1552. The site has been in operation since approximately 1985 (Figure 1-3). SWMU 56 consists of a 20-foot by 10-foot concrete pad that is surrounded by a chain-link fence. The site is a 90-day accumulation area (satellite storage area) for steel drums containing wastes such as solvents, paint thinners, used rags, aerosol cans, and waste oils. The Building 1552 Accumulation Area was identified as an SWMU in the RFA because a stained area with sparse vegetation was observed east of the site (A.T. Kearney, 1989). Residual adsorbent material was also observed in the grass along the edge of the concrete pad (A.T. Kearney, 1989). The RFA suggested that soil samples be collected from the stained area and from the edge of the concrete pad on the east side and analyzed for VOCs, SVOCs, and metals (A.T. Kearney, 1989).

5.2 RFA SV FIELD INVESTIGATIONS. Based on the sampling program recommended in the RFA, four surface soil samples were collected in April 1992 from areas of apparent vegetative stress on the eastern side of the concrete pad (ABB-ES, 1992c) (Figure 5-1). Analytical results of these samples suggest a possible release of VOCs and SVOCs to soil and the possibility of an adverse impact to groundwater (ABB-ES, 1993b).

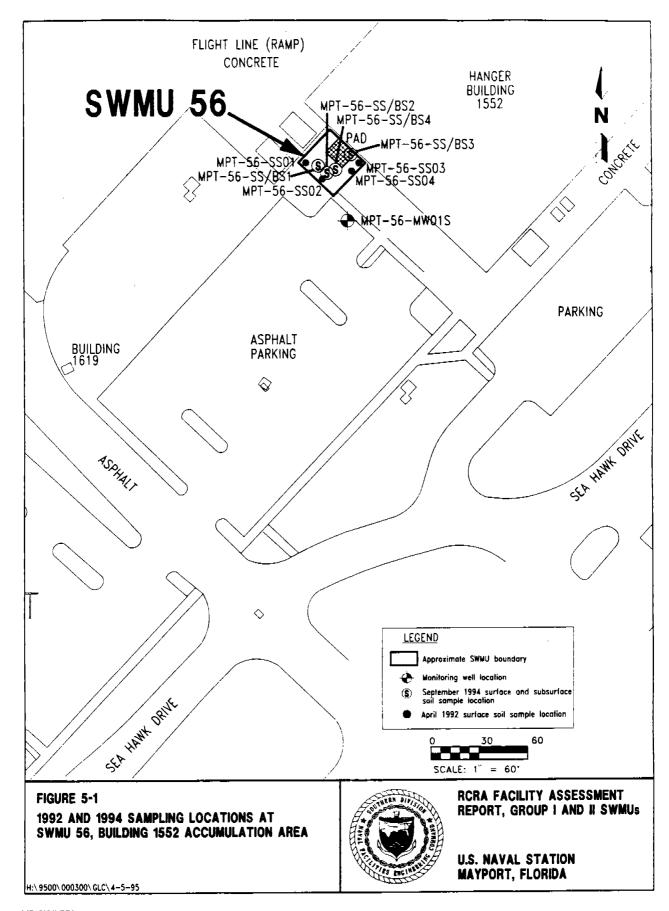
Confirmation sampling of soil and groundwater at SWMU 56 was performed during September 1994 by collecting additional surface and subsurface soil samples, and installing a single monitoring well, and collecting a groundwater sample. Four surface and four subsurface soil samples were collected on September 1, 1994, at the approximate locations of the previous surface soil samples (Figure 5-1). One monitoring well, MPT-56-MWIS, was installed August 3, 1994 (Figure 5-1), and sampled on September 10, 1994.

During the 1992 sampling event, surface soil samples were collected from the land surface to a depth of 6 inches bls. During the 1994 sampling event, surface soil samples were collected from the land surface to 1 foot bls and subsurface soil samples were collected from 3 to 4 feet bls except MPT-56-BS04 which was collected from a sampling interval of 4 to 5 feet bls.

Because many field activities are common to all NAVSTA Mayport SWMUs, the sampling procedures for RFI and RFA SV (confirmatory sampling) events are described in Section 2.1, Summary of Exploration and Sampling Program, of the NAVSTA Mayport GIR, Volume I (ABB-ES, 1995b). Site-specific elements and deviations from sampling procedures, if any, particular to SWMU 56 are discussed in subsequent paragraphs, and standard operating procedures are referenced where necessary. Monitoring well installation, soil and groundwater sampling procedures, and associated equipment decontamination procedures were conducted in general conformance with USEPA Region IV standard operating procedures (USEPA, 1991a).

Soil Sample Collection Procedure. Surface and subsurface soil sampling was accomplished as described in the NAVSTA Mayport RFI workplan (ABB-ES, 1991) and Subsection 2.1.1, Soil Sampling, of the GIR (ABB-ES, 1995b).

Monitoring Well Installation Procedure. Drilling and well installation were accomplished as described in the NAVSTA Mayport RFI (ABB-ES, 1991), and Subsection 2.1.1, Monitoring Well and Piezometer Installation, of the GIR (ABB-ES, 1995b).



<u>Groundwater Sample Collection Procedure</u>. Groundwater sampling was accomplished as described in Subsection 2.1.4, *Groundwater Sampling*, of the GIR (ABB-ES, 1995b).

Laboratory Analyses. Soil and groundwater samples were analyzed for the same target analytes including VOCs, SVOCs, pesticides, PCBs, metals, and cyanide selected from the groundwater monitoring list presented in Appendix IX (40 CFR 264) and USEPA Contract Laboratory Program target compound list and target analyte list. The environmental samples were analyzed using methods from Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW 846) (USEPA, 1986). A list of the target analytes is provided in Appendix A. Analytical results for each sample from the 1992 sampling event were presented in the RFA SV report, Phase 1 (ABB-ES, 1992c), and the results of the 1994 sampling event are included in Appendix B.

5.3 FINDINGS. The following presents a brief description of the results of the RFA SV sampling activities at SWMU 56. The findings include site geologic and hydrogeologic conditions and results of the analyses of surface and subsurface soil samples and groundwater samples.

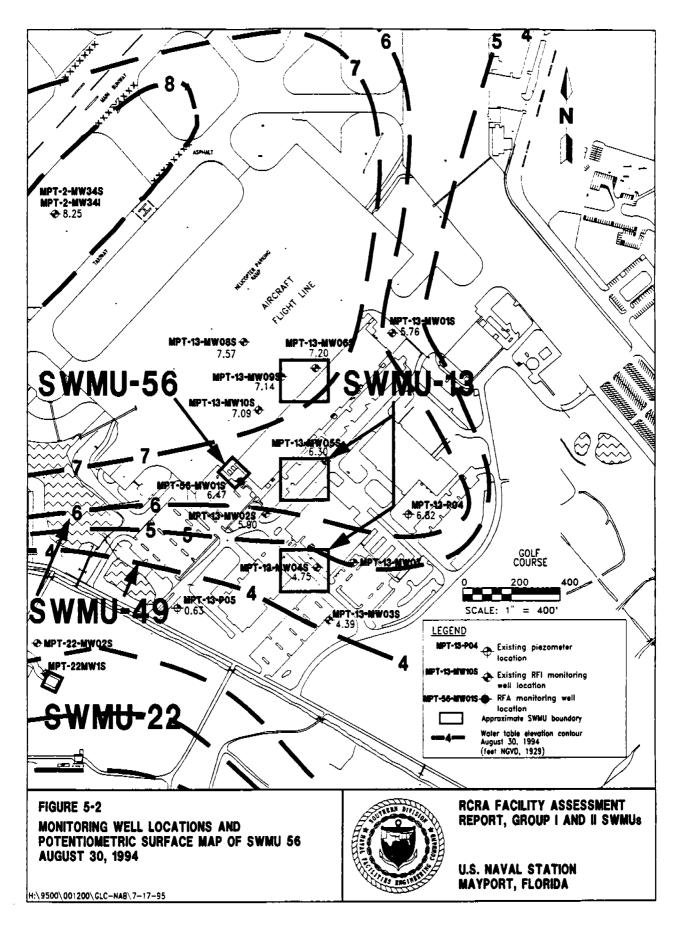
Site Geology. In August 1994, one soil boring was drilled at SWMU 56 for the installation of a shallow monitoring well screened across the water table (Figure 5-1). The boring log for this monitoring well is found in the GIR, Appendix A, Boring Logs (ABB-ES, 1995b). The following is a description of the subsurface soils encountered at the boring location.

Boring MPT-56-MWO1S (located near the southern corner of SWMU 56) encountered a fine sand that graded with depth to a fine silty sand with traces of shell fragments to approximately 10 feet bls, overlying a silty clay with a trace of shell fragments to the explored depth of 12.5 feet bls.

Geologic cross sections provided in the NAVSTA Mayport GIR (see Figures 3-3 and 3-4 ABB-ES. 1995b) depict subsurface geologic conditions in the vicinity of SWMU 56.

Site Hydrogeology. Groundwater levels at the SWMU 56 monitoring well and other RFI and RFA SV sites at NAVSTA Mayport were measured within a 7-hour period on August 30, 1994. The depth to the groundwater level at each location was measured relative to a notch or mark on the north side of each monitoring well surveyed to the NGVD of 1929 (commonly referred to as msl). The depth to groundwater at monitoring well MPT-56-MW01S is approximately 3 feet bls. Because only one monitoring well was installed at the site, a potentiometric surface map was not prepared specifically for SWMU 56; however, a potentiometric surface map (Figure 5-2) was prepared using monitoring wells for SWMU 13. Groundwater level data used to construct this and other potentiometric surface maps are provided in Appendix G. Based on the potentiometric surface shown on Figure 5-2, groundwater in the vicinity of SWMU 56 flows toward the southeast.

An approximation of the horizontal linear velocity of groundwater flow in the water table zone of the surficial aquifer in the vicinity of SWMU 56 is based on the potentiometric surface (hydraulic gradient) of the water table, estimates of radial hydraulic conductivities at monitoring well locations, and an estimate of the porosity (ratio of the volume of voids to total volume of the soil) of the saturated subsurface soil. The horizontal linear velocity was calculated from a modified form of Darcy's equation and represents the ratio of linear travel distance to travel time between two points (Freeze and Cherry, 1979). The horizontal linear velocity is expressed as $\rm V_D/N_e$, where $\rm V_D$ is the Darcy velocity ($\rm V_D$ = KI, where K is the radial hydraulic



conductivity and I is the hydraulic gradient) and N_e is the effective porosity of the saturated geologic stratum. An effective porosity of 0.35 is used in these calculations. (See Section 3.2.3, Physical Characteristics of Soil, in the NAVSTA Mayport GIR, ABB-ES, 1995b).

In-situ radial hydraulic conductivity values for monitoring wells in the vicinity of SWMU 56 are presented in Table 5-1. The range of in-situ radial hydraulic conductivity values in the vicinity of SWMU 56 are approximately 1.3 feet per day (MPT-13-P5) to 18.1 feet per day (MPT-13-P1). The hydraulic gradient appears to be relatively uniform over SWMU 56 (0.006 ft/ft on August 30, 1994) and an approximation of the horizontal linear velocity of the groundwater ranges from approximately 0.03 to 0.31 foot per day.

Table 5-1
Average Groundwater Velocities at SWMU 56

Groups I and II RFA SV Report U. S. Naval Station Mayport, Florida

Location	Estimated Effective Porosity	Hydraulic Conductivity (feet per day)	Estimated Gradient¹ (feet per feet)	Estimated Linear Velocity (feet per day)	Estimated Linear Velocity (feet per year)
MPT-13-P1	0.35	18.1²	0.006	0.31	113
MPT-13-P4	0.35	15.1 ²	0.006	0.25	91
MPT-13-P5	0.35	1.3 ²	0.006	0.03	11

¹ Based on synoptic water table elevations.

Based on the values for horizontal linear velocity and assuming no dilution, dispersion, or retardation, a contaminant in the water table zone of the surficial aquifer may travel at rates of 11 to 113 feet per year (Table 5-1).

Surface and Subsurface Soil Analytical Results. Tables 5-2 and 5-3 summarize the validated analytical results for organic and inorganic target analytes, respectively, detected in soil samples collected at SWMU 56. Complete analytical results are provided in Appendix B. A summary of frequencies of detection, range of detection limits, range of detected concentrations, arithmetic mean, and bench mark comparison values are provided in Tables 5-4 and 5-5 for surface and subsurface soil samples, respectively. The target analytes detected in the environmental samples were compared to background screening values computed from station wide surface and subsurface soil samples (ABB-ES, 1995b) and bench mark values consisting of USEPA soil screening guidance values (USEPA, 1994), USEPA Region III RBC (USEPA, 1995) and the State of Florida cleanup goals (FDEP, 1995). The state of Florida cleanup goals consisted of residential values for surface soil and industrial worker values for subsurface soil.

Each of the bench mark criteria provided in Tables 5-4 and 5-5 is human health based and represents the lower of either a noncarcinogenic HI of 1, where values of less than 1 represent a concentration at which noncarcinogenic effects are not likely or a lifetime excess cancer risk of 10^{-6} , which represents a chance of 1 in 1,000,000 for an adverse carcinogenic effect for a continuous lifetime exposure. The concentrations listed for the USEPA Region III RBCs correspond to an HI of 0.1, whereas the USEPA

² In-situ conductivity measurement during Phase 1 Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI), February 1992.

Superfund SSLs and the State of Florida cleanup goals are based on an HI of 1. The Federal NCP, (40 CFR, Part 300) states that for carcinogens a lifetime excess cancer risk in the range of 10^{-4} (a chance of 1 in 10,000 for an adverse carcinogenic effect for a continuous lifetime exposure) to 10^{-6} represents concentrations that are considered by USEPA to be protective of human health.

Table 5-2 summarizes the validated analytical results for organic target analytes (VOCs, SVOCs, and pesticides) detected in surface and subsurface soil samples collected in 1992 and 1994 at SWMU 56 (Figure 5-1). The following is a discussion of the target analytes detected during the 1992 and 1994 sampling events.

Surface Soil Sampling, 1992. VOCs, SVOCs, metals, and cyanide were detected in various combinations and concentrations in surface soil samples collected during the 1992 sampling event (Table 5-1). Pesticides and PCBs were not detected in the surface soil samples. The VOCs detected included acetonitrile, carbon disulfide, trichlorofluoromethane, chloroform, 2-butanone, 4-methyl-2-pentanone, and toluene. The SVOCs detected include di-n-butylphthalate, butylbenzylphthalate, and bis(2-ethylhexyl)phthalate. Phthalate compounds are common plasticizers that may be introduced by contacting the sample or container with gloves worn by either field or laboratory personnel or tubing or other plastic items. Twelve metals including arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, silver, vanadium, and zinc and cyanide were detected in the surface soil samples collected in 1992 (Table 5-2).

<u>Surface and Subsurface Soil Sampling, 1994</u>. VOCs, metals, and cyanide were detected in various combinations and concentrations in surface and subsurface soil samples collected during the 1994 sampling event (Table 5-1). SVOCs, PCBs, and cyanide were not detected in the surface soil samples.

The VOCs detected in samples collected during the 1992 sampling event were not detected during the 1994 sampling event. Only one VOC, acetone, was detected during the 1994 sampling event. Acetone is a common field and laboratory contaminant that can be introduced through inadequate drying of equipment following decontamination of sampling equipment or as a result of its widespread use as a solvent at the analytical laboratory.

None of the SVOCs detected in samples collected during the 1992 sampling event were detected in samples collected in the 1994 sampling event.

The same suite of metals with the addition of selenium and thallium were detected in the surface soil samples collected in 1994 (Table 5-2). Metals detected in the subsurface soil samples were a subset of those detected in the surface soil samples, including arsenic, barium, lead, vanadium, and zinc.

Groundwater Analytical Results. A summary of groundwater quality parameters is provided in Table 5-6 and Table 5-7 summarizes the validated analytical results for the groundwater sample collected at SWMU 56. Table 5-7 also provides a summary of frequencies of detection, range of detection limits, range of detected concentrations, arithmetic mean, and bench mark comparison values. The results of the analyses of the groundwater sample are provided in Appendix B. The target analytes detected in the groundwater sample were compared to background screening values computed from station wide background groundwater samples (ABB-ES, 1995b), and bench mark values

Organ	Table 5-2 Organic Analytes Detected in Soil Samples at SWMU 56	T S Detect	Table 5-2 ted in Soil	Samples	at SWMU	- 56				<u>-</u>
		Groups tar U.S. May	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	' Report n						
Analytical Batch No.:	20753		R8665	65	R8665	52	20753		R8665	<u></u>
Sample Location:	MPT-56-SS01	.SS01	MPT-56-SS01	-8501	MPT-56-SS01	-SS01	MPT-56-SS02	-5502	MPT-56-SS02	SS02
Sample No.:	MPT56SS01	SS01	56SS001	100	56SS001Dup	1Dup	MPT56SS02	SS02	56SS002	002
Date Sampled:	04/21/92	/92	09/01/94	/94	09/01/94	/94	04/21/92	/92	09/01/94	/94
Sample Depth (ft bis):	0 to 0.5	3.5	0 to 1	.1	0 to 1	1	0 to 0.5	0.5	0 to 1	_
Common Name	Conc.	Qual.	Conc.	Quat.	Conc.	Qual.	Conc.	Qual.	Cone.	Qual.
VOCs, Soil, (µg/kg)			ı <u>.</u>	-						
Acetone	ł		ŀ		80	7	ł		ı	
Acetonitrile	:		1		;		ı		l .	
Carbon disulfide	;		1		ı		ı		:	
Trichlorofluoromethane	:		ı		;	•	7		ı	•
Chloroform	:		t		1		:		1	
2-Butanone	:		ı		ı		;		1	
4-Methyl-2-pentanone	;		;		ı		1		•	
Toluens			I .		ı		1		1	
SVOCe, Soil, (µg/kg)										
Di-n-butyl Phthalate	t		1		;		:		:	
Butyl benzyl Phthalate	370	-	ı		i		96	٠, ٠	: :	
bis(2-Ethylhexyl) Phthalate	1,600	7	ı		ı		1,800	- 	;	
Pesticides, Sod. (µg/kg)										
4,4'-DDE	;		-	_			-			
See notes at end of table.										

Organ	Table 5-2 (Continued) Organic Analytes Detected in Soil Samples at SWMU 56	Table 5- s Detecto	Table 5-2 (Continued) Detected in Soil Sam	ued) Samples	at SWMU	26				
		Groups Iau U.S. May	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	Report						
			20763		R8665	S	21171	1	R8665	ιχ
Analytical Batch No.:	50/52	·	107		MDT F6.9903	8603	MPT-56-SS04	SS04	MPT-56-SS04	SS04
Sample Location:	MPT-56-SS03	SS03	MF1-56-5503	-50503		2000	1001	700	F65.S004	
Sample No.:	MPT56SS03	5803	MPT56SS03Dup	S03Dup	56SS003	<u> </u>	MP1568804	4050 	500	ţ ;
Campio vo: Date Samoled:	04/21/92	/92	04/21/92	/92	09/01/94	/94	04/21/92	76/	09/01/94	/94
	0 to 0.5	3.5	0 to 0.5	0.5	0 to 1	1	0 to 0.5	1.5	0 to 1	
Sample Depth (It bis):	5	O Isi	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Cone.	Qual.
Common Name	2	5								
VOCs, Soil (µg/kg)					•		•		:	
Acetone	:		:		!		1		ŀ	
Acetonitrile	90	7	5	7	1		; (_		
Carbon disulfide	ro	7	t		1		9	,	1	
Trichlorofluoromethane	ı,	-	:		1		:		: :	
Chloroform	;		ഗ	ح 	1		I F	-	1	
2-Butanone	1		ı		ı			,		
4-Methyl-2-pentanone	13	_	က	<u>۔</u>	1		i i		!	
Toluene	8	-	-		!				_	
SVOCs, Soil, (µg/kg)				_			67	7	1	_
Di-n-butyl Phthalate	;		ı		!		} \	· 	;	
Butyl benzyl Phthalate	1		l	-	i		·	-	:	
bis(2-Ethylhexyl) Phthalate	1		- - - - - - - - - - - - - - - - - - -		1		?			
Pesticides, Soil, (µg/kg)					!		1		1.5	
4,4'-DDE	;									
See notes at end of table.										

Table 5-2 (Continued) Organic Analytes Detected in Soil Samples at SWMU 56

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

		Mayp	ort, Florida					
Analytical Batch No.:	R86		R860 MPT-56		R86 MPT-56	I	R866 MPT-56-	
Sample Location:	MPT-56	-BS01	MP1-96-	-6302				
Sample No.:	56BS	001	56BS	002	56B\$	30 3	56BS	004
Date Sampled:	09/0	1/94	09/01	/94	09/01	1/94	09/01	/94
Sample Depth (ft bis):	3 to	4	3 to	4	_3 to	4	4 to	5
Common Name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
VOCs, Soil, (µg/kg)								
Acetone	25		8	J	9	J	-	
Acetonitrile	_	}	-		-	ļ	-	
Carbon disulfide			-		_	ļ	-	ł
Trichlorofluoromethane	-		-	İ	-		-	
Chloroform	-	}	-		-		-	Ì
2-Butanone	-		-		-		-]
4-Methyl-2-pentanone	-	ł	-		-		_	
Toluene	-		-				-	
SVOCs, Soil, (µg/kg)			}				ļ	
Di-n-butyl Phthalate	-		-		-	1	-	ļ
Butyl benzyl Phthalate	-		-		-	1	-	}
bis(2-Ethylhexyl) Phthalate	-		-		-	[-	
Pesticides, Soil, (µg/kg)								
4.4'-DDE	1.8		6.3		2.4		2.1	İ

Notes: Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C. Suffix Dup = identifies the duplicate of the corresponding environmental sample.

ft bis = sample collection depth in feet below land surface.

Conc. = concentration.

Qual. = qualifier.

VOCs = volatile organic compounds.

 μ g/kg = micrograms per kilogram.

- = analyte not detected.

"J" = estimated value.

SVOCs = semivolatile organic compounds.

DDE = dichlorodiphenyldichloroethene.

Table 5-3 Inorganic Analytes Detected in Soil Samples at SWMU 56

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

				nayport, ri	0.100			$\overline{}$		
Analytical Batch No.:	21510	,	R866	5	R866	5	21510	5 }	R8665	; I
Sample Location:	MPT-56-9	S01	MPT-56-	SS01	MPT-56-	SS01	MPT-56-9	3802	MPT-56-S	S02
Sample No.:	MPT56S	\$01	56\$\$0	01	56SS00	1Dup	MPT56S	S02	56\$\$00)2
Date Sampled:	04/21/	92	09/01/	/94	09/01	/94	04/21/	/92	09/01/9	94
Sample depth (ft bis):	0 to 0.	.5	0 to	1	0 to	1	0 to 0	1.5	0 to 1	l
Common Name Soil (mg/kg)	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
Arsenic	0.95	J	0.94	J	0.94	J	1.2	J	0.62	J
Barium	29.8	ارا	7.4	J	12.9	J	183		4.5	J
Beryllium	0.19	J	_		-		0.13	ر ا	-	
Cadmium	4.3		0.39	J	2.1	J	3.1		-	
Chromium	33.7		7.2	J	17.6	J	29.3		3.7	J
Cobalt	2.9	J	-		-		1.6	J	-	
Copper	52.7		6.8	j	25.7	J	12.4		2.4	J
Lead	21.3		7.4	J	20.6	J	91.2	J	2.7	J
Nickel	6.2	J	2.1	J	5.5	J	8.4	J	1.5	J
Selenium	-		0.15	J	-		-		-	
Silver	0.64	J	-		-		0.47	ا ا	-	ŀ
Thallium	_		-		-		-		_	
Vanadium	4.1	J	4.7	J	4.8	J	3.7	J	2.9	J
Zinc	228	J	24	J	88.8	J	133	١	8.4	J
Cyanide	<u> </u>				<u> </u>		<u> </u>	ᆚ.——		<u> </u>

Table 5-3 (Continued) Inorganic Analytes Detected in Soil Samples at SWMU 56

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

			Ma	зуроп, н	orica					
Analytical Batch No.: Sample Location:	21510 MPT-56-S	l	2151 MPT-56-		R866 MPT-56-		21510 MPT-56-9	-	R8669 MPT-56-9	-
Sample No.:	MPT56S		MPT56SS	03Dup	56SS	ж	MPT56S	S04	56SS 0	04
Date Sampled:	04/21/	92	04/21	/92	09/01	/94	04/21/	92	09/01/	94
Sample depth (ft bis):	0 to 0.	5	0 to ().5	0 to	1	0 to 0	.5	0 to	1
Common Name Soil (mg/kg)	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
Arsenic	0.82	٦	1.5	J	0.71	J	1.1	J	0.73	J
Barium	6.2	J [6.6	J	7.0	J	7.1	J	7.4	J
Beryllium	0.1	J	0.12	J	-		0.13	J]
Cadmium	_		_		0.23	J	-		0.42	J
Chromium	8.7		3.9	Ì	7.2	J	52.3		5.0	J
Cobalt	-		-		0.71	J	0.83	J	-	
Copper	4.1	J	3.5	J	3.9	J	5.1	J	6.3	J
Lead	8	J	4.9	J	7.9	J	4.9	J	7.0	J
Nickel			1.5	J	1.9	J	3.1	J	2.3	J
Selenium	_		-		-	ļ	-	1	0.14	J
Silver		İ			-		-	ľ		
Thallium	-			ł			-	1	0.15	J
Vanadium	3.6	J	3.5	J	4.8	J	3.4	J	4.1	J
Zinc	16.3	J	14.9	J	15.9	J	17.5	J	31.7	J
Cyanide	0.7	ر ا					0.87	J		1

See notes at end of table.

Table 5-3 (Continued) Inorganic Analytes Detected in Soil Samples at SWMU 56

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

		, n	nayport, Florii	<u> </u>				
Analytical Batch No.: Sample Location:	2151 MPT-56-	ì	2151 MPT-56-	l l	2151 MPT-56-	B\$03	21510 MPT-56-I	3\$04
Sample No.:	56BS	001	56BS(002	56BS	3 03	56BS0	
Date Sampled:	09/01	/94	09/01	/94	09/01	/94	09/01,	/94
Sample depth (ft bis):	3 -	4	3 -	4	3-	4	4 - 5	<u> </u>
Common Name Soil (mg/kg)	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
Arsenic	0.55	J	0.61	J	0.48	J	0.42	J
Barium	3.1	J	2.5	j	-		3.2	J
Beryllium	_		_		-		-	
Cadmium	_		-		-		-	
Chromium	-		-		-	}	-	
Cobalt	-		-		-	}	-	
Copper	-		-		-	1	-	
Lead	1.2	J	0.98	J	0.92	J	0.97	J
Nickel	_		-	1	-	1		
Selenium	-			1		}	-	
Silver	_		-		-		-	
Thallium	-				-		-	
Vanadium	1.8	J	1.9	J	2.0	J	1.4	J
Zinc	-		5.4	J	_		6.7	J
Cyanide	-	·		<u> </u>	<u> </u>			

Notes: Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C. Suffix Dup = identifies the duplicate of the corresponding environmental sample.

ft bis = sample collection depth in feet below land surface.

mg/kg = milligrams per kilogram.

Conc. = concentration.

Qual. = qualifier.

"J" = estimated value.

- = analyte not detected.

			Table 5-4 Chemicals of Potential Concern in Surface Soll at SWMU 56	Table 5-4 otential Concern in	e 5-4 'n in Surfac	e Soil at SWIV	IU 56			
				Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	s I and 11 RFA SV Report U.S. Naval Station Mayport, Florida					
Analyte	Frequency of Detection ¹	Range of Reporting Limits	Range of Detected Concentrations	Mean of Detected Concentrations ³	Background Screening Value ⁴	Risk Based Screening Concentration ⁵	Superfund Proposed Soll Screening Levels ⁶	Cleanup Goals for the Military Sites in Florida ⁷	Analyte CPC? (Yes/No)	Reason
Volatiles (µg/kg) Acetone	1/8	10 to 21	8.6	8.0	Q.	780,000	7,800,000	130,000	Š	S, P, G
Acetonitrile	8/1	100 to 140	50	20	2	47,000	X A	N A	운	တ
2-Butanone	1/8	10 to 14	7	7	2	4,700,000	NA A	2,500,000	욷	o S
Carbon disuffide	4/8	5 to 5	2 to 3	2, 55	ON O	780,000	7,800,000	2,600	₽	S, P, G
Chloroform	1/8	5 to 7	4	4	9	100,000	110,000	300	2	D'd'S
4-Methyl-2- pentanone	1/8	10 to 14	6 0	æ	2	630,000	A	310,000	2	ပ ဖွဲ
Trichlorofluoro- methane	2/8	5 to 7	4 to 7	č.	용	2,300,000	Ā	3,400	8	ა ზ
Toluene	1/8	5 to 7	1.5	. iv	9	1,600,000	16,000,000	270,000	2	S, P, G
Semivolatiles (µg/kg)										
Butyl benzyl phthalate	8/0	360 to 3.000	370 to 790	580	9	1,600,000	16,000,000	15,000,000	ŝ	S, P, G
Di-n-butylphthalate	1/8	690 to 3,000	49	49	Q	780,000	7,800,000	7,500,000	2	S, P, G
bis (2- Ethythexyl)phthalate	4/8	690 to 710	79 to 1,800	1,182	Q	46,000	46,000	45,000	o Z	9 6 8
Peeticides/PCBs (µg/kg) 4-4'-DDE	2/8	0.69 to 220	0.68 to 1.5	=	2.3	1,900	2,000	2,900	S	გ. მ.
See notes at end of table	table.									

			hemicals of Pc	Table 5-4 (Continued) Chemicals of Potential Concern in Surface Soil at SWMU 56	Continued) 'n in Surfac	e Soil at SWM	IU 56			
				Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	s I and II RFA SV Report U.S. Naval Station Mayport, Florida					
Analyte	Frequency of Detection ¹	Range of Reporting Limits	Range of Detected Concentrations ²	Mean of Detected Concentrations ³	Background Screening Value ⁴	Risk Based Screening Concentration ⁵	Superfund Proposed Soit Screening Levets*	Cleanup Goals for the Military Sites in Florida?	Analyte CPC? (Yes/No)	Reason®
Inorganics (mg/kg)									2	
Arsonic	8/8	Z E	0.62 to 1.2	0.93	8	°0.37	9.4	0.7	∀ ⊕3	i
	, 80 / 80	Æ	4.5 to 183	31.9	5.6	550	5,500	5,000	2	လ် ရ.
Becylling	4/8	0.09 to 0.16	0.11 to 0.19	0.14	0.16	0.15	1.0	1.0	∀ 88	
Cadmitte Cadmitte	, 2/8	0.21 to 0.70	.23 to 4.3	1.9	a	9.9	88	37	Yes	
Cadming	, e/c	N EN	3.7 to 52.3	17.4	2.6	1039	06601	10150	Yes	
200 C	4/8	0.64 to 0.84	0.71 to 2.9	15	Q	470	NA	4,700	2	o o
Copair) (i		2.4 to 52.7	12.9	2.2	290	Ą	2,900	운	ซ ซ์
Copper	0/0			ñ	Ş	11400	11,400	1,500	ş	S, P, G
Lead	8/8	Y Z		<u>.</u> 6	9	160	1,600	1,500	2	S, P, G
Nickel	8/8	œ Z	0.98 to 8.4	6.5	<u> </u>	<u> </u>	36	390	o Z	æ
Selenium	2/8	0.12 to 0.32	0.11 to 0.14	5 6	<u> </u>	3 8	36	380	ŝ	S, P, G
Silver	2/8	0.37 to 0.45	0.47 to 0.64	0.56	€	6		460	Ş	0 0
Vanadium	8/8	N R	2.9 to 4.1	3.9	4	52	nee	00 60	2 4	
Zinc	8/8	Æ	8.4 to 228	63.3	2.6	2,300	23,000	23,000	2 :	_ 0
Cyanide	2/8	0.14 to 0.26	0.40 to 0.87	0.64	S	160	1,600	1,600	2	ה ה
See notes on next page.	age.									

Chemicals of Potential Concern in Surface Soil at SWMU 56 Table 5-4 (Continued)

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

Notes from previous pages.

Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected values).

Value indicated by asterisk is the average of a sample and its duplicate. For duplicate samples having one nondetected values, 1/2 the contract required quantitation limit or contract required detection limit (CRDL) is used as a surrogate.

The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected including values qualified with a "J"; It does not include those samples where the analyte was not detected ("U" or "UJ" qualitiers) and rejected ("R" qualitier)

The background screening value is twice the average of detected concentrations for inorganic analytes in background samples. Organic values are one times the mean of detected concentration. Organic values are included for comparison purposes only.

concentrations (RBC) for residential surface soil exposure per January 1993 guidance (Selecting Exposure Routes and Contaminants of Concern by Risk-Based Screening. For all chemicals except the essential nutrients (calcium, iron, magnesium, potassium, and sodium), U.S. Environmental Protection Agency (USEPA) Region III risk based EPA/903/R-93-001) was used for screening. Actual values are taken from the USEPA Region III RBC tables dated February 1995, and are based on a cancer risk of 10°

Source: USEPA. December, 1994. Soil Screening Guidance, Review Draft, USEPA, Office of Solid Waste and Emergency Response, Washington, D.C., EPA/540/Rand an adjusted hazard quotient of 0.1. For the essential nutrients, screening values were derived based on recommended daily allowances (RDAs).

Values are taken from the Florida Department of Environmental Protection memorandum, Cleanup Goals for Military Sites In Florida, dated April 5, 1995. The values are for the aggregate resident based on a cancer risk of 10° and the child resident based on a hazard quotient of 1.

Analytes were included or excluded from the risk assessment for the following reasons:

S = the maximum detected concentration did not exceed the screening concentration and will not be considered further.

G = the maximum detected concentration did not exceed the Florida cleanup goals and will not be considered further.

= the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at background locations.

C = the analyte is a member of a chemical class that contains other chemicals of potential concern (CPCs) (i.e., caroinogenic polynuclear aromatic hydrocarbons = the frequency of detection was less than 5 percent and professional judgment was used to exclude analyte from further study.

P = the maximum detected concentration did not exceed the USEPA proposed soil screening levels (SSLs), 9355.4-14FS, dated December 1994. M = the analyte was detected at less than 5 percent and is a CPC in more than one media.

The value is based on arsenic as a carcinogen.

10 The value is based on chromium hexavalent form.

" USEPA Office of Solid Waste and Emergency Response (OSWER) Directive No. 9355.4-12 revised Interim recommended soll cleanup for Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Resource Conservation and Recovery Act (RCRA) sites.

The average of a sample and its duplicate is used for all table calculations. Notes:

Sample locations include: 56SS01; 56SS02; 56SS03; 56SS04; 56SS00101; 56SS00201; 56SS301; 56SS401

Duplicate sample locations include: 56SS03D; 56SS00101D

Background sample locations include: MPT-B-SS1; MPT-B-SS2; MPT-B-SS3; MPT-B-SS4; MPT-B-SS5; MPT-B-SS6 Duplicate background sample locations include: MPT-B-SS1DUP

µg/kg = micrograms per kilograms.
NO = not detected in any background samples. CPC = chemicals of potential concern.

NA = not available.

DDE = dichlorodiphenyldichloroethene. mg/kg = milligrams per kilograms. PCBs = polychlorinated biphenyls.

NR = not reported; analyte detected in each sample; reporting limits are same as range of detected concentrations.

94/101.

		ပ	Chemicals of Po	s of Potential Concern in Subsurface Soil at SWMU 56	cern in Subsur	face Soil at S	WMU 56			
				Groups I and U.S. Na Maypo	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	זינ				
Analyte	Frequency of Detection ¹	Range of Reporting Limits	Range of Detected Concentrations ²	Mean of Detected Concentrations ³	Background Screening Value ⁴	Risk Based Concentration ⁵	Superfund Proposed Soil Screening Levets ^e	Cleanup Goals for the Military Sites in Florida?	Analyte CPC (Yes/No)	Reason®
Volatiles (µg/kg) Acetone	3/4	5	8 to 25	4.	2	780,000	7,800,000	890,000	S S	S, P,G
Semivolatiles (µg/kg)										
No Analytes Detected										
Pesticides/PCBs										
4,4'-DDE	4/4	ĸ	1.8 to 6.3	3.2	3.5	1,900	2,000	006'6	2	ල ල
Inorgenics (mg/kg)			,		Ġ	90 37	4.0	-	Š	80
Arsenic	4/4	Œ	0.42 to 0.61	0.32 	2 1		2500	7.400	9	6
Barium	3/4	2.4	2.5 to 3.2	2.9	7	200	10 400	900	2	•
Lead	4/4	Ä	0.92 to 1.2	-	2.8	400	400	000'1	2 4	, α
Vanadium	4/4	. K	1,4 to 2	1.8	3.2	55	550	4,800	ᢓ :	
Zinc	2/4	3.8 to 3.9	5.4 to 6.7	6.1	4.8	2,300	23,000	220,000	2	Ď.

Chemicals of Potential Concern in Subsurface Soil at SWMU 56 Table 5-5 (Continued)

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

Value indicated by asterisk is the average of a sample and its duplicate. For duplicate samples having one nondetected values, 1/2 the contract required quantitation limit or The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected including values qualified with a "J"; it does not include those Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected values) contract required detection limit (CRDL) is used as a surrogate.

The background screening value is twice the average of detected concentrations for inorganic analytes in background samples. Organic values are one times the mean of samples where the analyte was not detected ("U" or "UJ" qualifiers) and rejected ("R" qualifier)

EPA/903/R-93-001) was used for screening. Actual values are taken from the USEPA Region III RBC tables dated February 1995 and are based on a cancer risk of 10° and an concentrations (RBC) for residential surface soil exposure per January 1993 guidance (Selecting Exposure Routes and Contaminants of Concern by Risk-Based Screening, For all chemicals except the essential nutrients (calcium, iron, magnesium, potassium, and sodium), U.S. Environmental Protection Agency (USEPA) Region III risk based adjusted hazard quotient of 0.1. For the essential nutrients, screening values were derived based on recommended dally allowances (RDAs). detected concentration. Organic values are included for comparison purposes only.

Source: USEPA. December, 1994. Soil Screening Guidance, Review Draft, USEPA, Office of Solid Waste and Emergency Response, Washington, D.C., EPA/540/R-94/101. Values are taken from the Florida Department of Environmental Protection memorandum, Cleanup Goals for Military Sites in Florida, dated April 5, 1995. The values are for

the industrial worker based on a cancer risk of 10.8 and the general worker based on a hazard quotient of 1. Analytes were included or excluded from the risk assessment for the following reasons:

S = the maximum detected concentration did not exceed the screening concentration and will not be considered further.

G = the maximum detected concentration did not exceed the Florida cleanup goals and will not be considered further.
 B = the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at background locations.

C = the analyte is a member of a chemical class that contains other chemicals of potential concern (CPCs) (i.e., carcinogenic polynuclear aromatic hydrocarbons F = the frequency of detection was less than 5 percent and professional judgment was used to exclude analyte from further study.

P = the maximum detected concentration did not exceed the USEPA proposed soll screening levels (SSLs), 9355.4-14FS, dated December 1994. M = the analyte was detected at less than 5 percent and is a CPC in more than one media.

19 USEPA Office of Solid Waste and Emergency Response (OSWER) Directive No. 9355.4-12 revised Interim recommended soli cleanup for Comprehensive Environmental Response, Compensation, and Lability Act (CERCLA) and Resource Conservation and Recovery Act (RCRA) sites. The value is based on arsenic as a carcinogen. •

The average of a sample and its duplicate is used for all table calculations. Notes:

Background sample locations include: MPT-B-BS1; MPT-AB-BS4; MPT-B-BS5; MPT-B-BS6 Sample locations include: 56BS00104; 56BS00204; 56BS00304; 56BS00405 Duplicate background sample locations include: MPT-B-BS1DUP

= not reported; analyte detected in each sample; reporting μg/kg = micrograms per kilograms. ND = not detected in any background samples. NR = not reported; analyte detected in each sam CPC = chemicals of potential concern.

imits are same as range of detected concentrations.

DDE = dichlorodiphenyldichloroethene. mg/kg = milligrams per kllograms. PCBs = polychlorinated biphenyls. NA = not available.

from USEPA Region III RBCs (USEPA, 1995) and Florida groundwater guidance concentrations (FDEP, 1994). The FDEP guidance concentrations include Federal and State promulgated and unpromulgated values. The State of Florida has promulgated some guidance concentrations at values lower than Federal values.

Each of the bench mark criteria provided in Table 5-7 is human health based and represents the lower of either a noncarcinogenic HI of 1 or a lifetime excess cancer risk of 10^{-6} . Bench mark values for a noncarcinogenic HI of 1 represent a concentration where noncarcinogenic effects are not likely. A bench mark value for a lifetime excess cancer risk of 10^{-6} represents a chance of 1 in 1,000,000 for an adverse carcinogenic effect for a continuous lifetime exposure.

The water quality parameters for the SWMU 56 groundwater monitoring wells were compared to the State of Florida secondary water quality criteria (Table 5-6). The value determined for color exceeded the State of Florida secondary water quality criteria for the groundwater sample. The water quality criteria are used to assess potable water from a water supply system and may not be directly applicable to a groundwater sample collected from a monitoring well.

The value for hardness as $CaCo_3$ (300 mg/ ℓ) suggests that the groundwater would be considered very hard (greater than 180 mg/ ℓ) (Durfor and Becker, 1964). The value for total dissolved solids (426 mg/ ℓ) suggests that the groundwater would be considered fresh. The range for classifying water as fresh is 0 to 1,000 mg/ ℓ total dissolved solids (Freeze and Cherry, 1979).

SVOCs, pesticides, PCBs, and cyanide were not detected in the groundwater sample. One VOC, acetone, was detected in the groundwater sample (Table 5-7). Seven inorganic analytes including barium, calcium, iron, magnesium, manganese, sodium, and vanadium were detected in the groundwater sample.

5.4 PRELIMINARY RISK EVALUATION.

<u>Surface Soil</u>. None of the VOCs, SVOCs, or pesticides detected in the surface soil samples exceeded the bench mark values. Four of the inorganic analytes, arsenic, beryllium, cadmium, and chromium, were detected in surface soil samples at concentrations that exceeded at least one of the bench mark values, which are based on a lifetime excess cancer risk of 10^{-6} .

Each of the eight surface soil samples contained arsenic at concentrations that exceeded the USEPA Region III RBC (0.37~mg/kg) and the proposed Superfund SSL (0.4~mg/kg). Seven of the eight samples contained arsenic at concentrations that exceed the FDEP cleanup goal (0.7~mg/kg). Arsenic was not detected in the background surface soil samples.

One sample contained beryllium at a concentration that exceeded the background screening value (0.16 mg/kg). Only one of eight samples contained beryllium at a concentration that exceeds the USEPA Region III RBC (0.15 mg/kg) and five of eight samples contained beryllium at concentrations that exceed the proposed Superfund SSL and Florida cleanup goal of 0.1 mg/kg. The surface soil background screening value for beryllium also exceed the bench mark values.

Three of eight samples contained cadmium at concentrations that exceeded the background screening value (2~mg/kg). Only one of eight samples contained

Table 5-6 Water Quality Parameters for Groundwater Samples at SWMU 56

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

	Маурог	t, Florida	<u>.</u>
Analytical Batch No.:		M7505	M 7515
Sample Matrix:		Groundwater	Groundwater
Sample Location:		MPT-26-MW01S	Secondary ¹ Water Quality
Sample No.:		26MW0001\$	Criteria
Date Sampled:		08/02/94	
Common Name	Units	Conc.	Conc.
Alkalinity as CaCO ₃	mg/£	283	-
Ammonia-N	mg/£	1.8	_
Chloride	mg/£	44.3	250,000
Color	APHA	120	15
Hardness as CaCO₃	mg/£	300	_
Nitrate/Nitrite-N	mg/£	0.48	10,000
Oil and Grease	mg/£	NA NA	-
Phosphorous-P, Total	mg/£	1.33	-
Sulfate	mg/£	50	250,000
Sulfide	mg/ <i>1</i>	2.4	-
Total Dissolved Solids	mg/£	426	500
Total Kjeldahl Nitrogen	mg/ <i>1</i>	2.2	-
Total Organic Carbon	mg/t	14	_
рН	su	6.71	6.5 to 8.5

¹ Secondary Water Quality Criteria, Chapter 62-550.320, Florida Administrative Code (FAC) Notes: Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C.

SWMU = solid waste management unit.

Conc. = concentration.

CaCO₃ = calcium carbonate.

mg/l = milligrams per liter.

- = analyte not detected.

APHA = American Public Health Association

NA = not analyzed.

SU = standard units.

	Cher	icals of Po	Tabl	Table 5-7 Chemicals of Potential Concern in Groundwater at SWMU 56	ater at SWMU	56		
			Groups I and II U.S. Nav Maypor	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida				
Analyte	Frequency of Detection	Range of Reporting Limits	Range of Detected Concentrations ²	Background Screening Concentrations ³	Risk Based Screening Concentration⁴	Florida Guidance Concentration ⁵	Analyte CPC? (Yes/No)	Reason
Volathes (µg/f)	-	Ę	4	S	370	700	2	ა ტ
Acetone	-	2						
Semivolatiles (µg/l)								
No Analytes Detected								
Pesticides/PCBs (µg/f)								
No Analytes Detected								
Inorgenics (µg/f)					į	COCO	2	œ
Barium	,-	0.4	9.7	10.2	290	000	} ;	
Calcium	-	41.7	97,100	170,450	1,055,398	¥ Ž	2	Ď
	-	9. 1.	477	2,076	13,267	300	2	æ
	-	31.4	36,100	21,234	118,807	Y Y	ž	ဟ
Magnesan	-	0.6	89,4	185.8	18	20	2	œ
Mangallese		14.4	240,000	18,624	396,022	160,000	Yes	
Linibos :	- -		භ	10.6	5 8	49	No.	80
Vanadium	-	2						
See notes on next page.								

Chemicals of Potential Concern in Groundwater at SWMU 56 Table 5-7 (Continued)

Groups 1 and II RFA SV Report U.S. Naval Station Mayport, Florida

			and form	- Lindbert				
Analys	Frequency	Range of Reporting	Range of Detected	Background Screening		Florida Guidance	Analyte CPC?	Reason
	Detection 1	Limits	Concentrations ²	Concentrations Concentrations	Concentration	Concentration	(Yes/No)	
!								

Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected Value indicated by asterisk is the average of a sample and its duplicate. For nondetected values, 1/2 the contract required quantitation Ilmit or contract

~

Based Screening, EPA/903/R-93-001) was used for screening. Actual values are taken from RBC table dated February 1995, and are based on a cancer Region III risk based concentrations (RBC) for tap water per January 1993 guidance (Selecting Exposure Routes and Contaminants of Concern by Risk-For all chemicals except the essential nutrients (calcium, iron, magnesium, potassium, and sodium), U.S. Environmental Protection Agency (USEPA) The background screening value is twice the average of detected concentrations for inorganic analytes in background samples. required detection limit (CRDL) is used as a surrogate. m +

risk of 10° or an adjusted hazard quotient of 0.1. For the essential nutrients, screening values were derived based on recommended daily allowances

Florida Department of Environmental Protection Groundwater Guidance Concentrations (June 1994) Analytes were included or excluded from the risk assessment for the following reasons:

S = the maximum detected concentration did not exceed the screening concentration and will not be considered further. the maximum detected concentration did not exceed the Florida cleanup goals and will not be considered further.

G = the maximum detected concentration did not exceed the Florida cleanup goals and will not be consumered fortises.

B = the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at background locations.

F = the frequency of detection was less than 5 percent, and professional judgment was used to exclude analyte from further study.

F = the frequency of detection was less than 5 percent.

C = the analyte is a member of a chemical class that contains other chemicals of potential concern (CPCs) (i.e., carcinogenic polynuclear

aromatic hydrocarbons [PAHs]).

P = the maximum detected concentration did not exceed the USEPA proposed soil screening levels (SSLs), 9355.4-14FS, dated December 1994. = the analyte was detected at less than 5 percent and is a CPC in more than one media. Σ

The average of a sample and its duplicate is used for all table calculations. Notes:

Background sample locations include: 01MW001, 08MW005S, 08MW001S, 0SMW001R, 8MW5S, MPT-1-MW1-1, MPT-S-1-1, and S1. Sample location includes: 56MW001S.

CPCs = chemicals of potential concern.

ND = not detected in any background samples. ug/t = micrograms per liter.

PCBs = polychlorinated biphenyls.

not available ž

cadmium at a concentration that exceeded the USEPA Region III RBC (3.9~mg/kg). None of the samples contained cadmium at concentrations that exceeded the proposed Superfund SSL (39~mg/kg) or the FDEP cleanup goal (37~mg/kg). The background screening value (2~mg/kg) is less than the bench mark values.

Each of the eight samples contained chromium at concentrations that exceeded the background screening value (2.6 mg/kg). Only one of eight samples contained chromium at a concentration that exceeded the USEPA Region III RBC (39 mg/kg). None of the samples contained concentrations of chromium that exceeded the proposed Superfund SSL (390 mg/kg) or the FDEP cleanup goal (150 mg/kg). The background screening value for chromium (2.6 mg/kg) is less than bench mark values.

<u>Subsurface Soil</u>. The VOC (acetone) and pesticide (4,4'-DDE) detected in subsurface soil did not exceed the bench mark values. The metals (arsenic, barium, lead, and vanadium) detected in the subsurface soil samples exceed the background screening values. Concentrations of zinc exceeded the background screening value but did not exceed any of the bench mark values, and therefore were not considered to be CPCs.

Groundwater. The VOC (acetone) detected in the groundwater sample did not exceed the bench mark values. Two of the inorganic analytes, magnesium and sodium, were detected at concentrations that exceeded their background screening values (21,234 μ g/ ℓ) and 18,624 μ g/ ℓ , respectively). The concentration detected for magnesium (36,100 μ g/ ℓ) was less than the USEPA Region III RBC (118,807 μ g/ ℓ). The concentration detected for sodium (240,000 μ g/ ℓ) was less than the Region III RBC (396,000 μ g/ ℓ), but exceeds the FDEP guidance concentration (160,000 μ g/ ℓ), and was considered to be a CPC.

5.5 CONCLUSIONS AND RECOMMENDATIONS.

5.5.1 Conclusions

Surface Soil Samples. None of the VOCs (acetonitrile, acetone, carbon disulfide, trichlorofluoromethane, chloroform, 2-butanone, 4-methyl-2-butanone, and toluene), SVOCs (di-n-butylphthalate, butylbenzylphthalate, and bis(2-ethylhexyl)phthalate), or pesticide (4,4'-DDE) detected in the surface soil samples exceeded the bench mark values. In addition, the seven VOCs (acetonitrile, carbon disulfide, trichlorofluoromethane, chloroform, 2-butanone, 4-methyl-2-butanone, and toluene) detected in samples collected in 1992 were not detected in surface soil samples collected in 1994. PCBs were not detected in the surface soil samples.

Four of the inorganic analytes, arsenic, beryllium, cadmium, and chromium, were detected in surface soil samples at concentrations that exceeded bench mark values, which are based on a lifetime excess cancer risk of 10^{-6} . However, the potential risk associated with observed concentrations of arsenic and beryllium is within a range (10^{-4} to 10^{-6}) that is considered by USEPA to be protective of human health (40 CFR Part 300) (see Table C-3, Appendix C). Cadmium and chromium were detected at concentrations that were less than the proposed Superfund SSLs and FDEP cleanup goals.

Because the land features at NAVSTA Mayport have been impacted by the deposition of dredge material from the Mayport Turning Basin, it cannot be determined whether the concentrations of arsenic, beryllium, cadmium, and chromium are

related to a release at SWMU 56 or are residual concentrations from the dredge material.

Subsurface Soil Samples. The VOC (acetone) and pesticide (4,4'-DDE) did not exceed the bench mark values. The metals (arsenic, barium, lead, and vanadium) detected in the subsurface soil samples did not exceed the background screening values. Concentrations of zinc exceeded background screening values but not the bench mark values. Therefore, the concentrations of metals detected in the subsurface soil samples are not likely attributable to a release from SWMU 56.

<u>Groundwater Sample</u>. The VOC (acetone) detected in the groundwater sample did not exceed the bench mark values. Acetone is a common sampling or laboratory related contaminant. Magnesium and sodium were detected at concentrations that exceeded their background screening values. The concentration detected for magnesium was less than the USEPA Region III RBC. The concentration detected for sodium was less than the USEPA Region III RBC, but exceeds the FDEP guidance concentration.

The source for sodium may be the incomplete flushing of seawater from the surficial aquifer or from deposition of dredge material from Mayport Turning Basin to construct the land features at NAVSTA Mayport.

5.5.2 Recommendations SWMU 56 is recommended for no further investigation at this time based on the following rationale.

- No PCBs were detected in the surface or subsurface soil samples.
- None of the VOCs (acetonitrile, acetone, carbon disulfide, trichlorofluoromethane, chloroform, 2-butanone, 4-methyl-2-butanone, and toluene), SVOCs (di-n-butylphthalate, butylbenzylphthalate, and bis(2-ethylhexyl)phthalate), or pesticide (4,4'-DDE) detected in the surface soil samples exceeded the bench mark values.
- Concentrations of arsenic, beryllium, cadmium, and chromium detected in surface soil samples exceeded human health based risk bench mark values representing a lifetime excess cancer risk of 10^{-6} . However, the potential risk associated with observed concentrations of arsenic and beryllium is within a range (10^{-4} to 10^{-6}) that is considered by USEPA to be protective of human health (40 CFR 300).
- Cadmium and chromium were detected in surface soil at concentrations that were less than the proposed Superfund SSLs and FDEP cleanup goals.
- The VOC (acetone) and pesticide (4,4'-DDE) detected in subsurface soil samples did not exceed the bench mark values.
- The metals (arsenic, barium, lead, and vanadium) detected in the subsurface soil samples did not exceed the background screening values. Zinc exceeded background screening values but not the bench mark values.
- The VOC (acetone) detected in the groundwater sample did not exceed the bench mark values.
- Magnesium and sodium were detected in groundwater at concentrations that exceeded their background screening values; however, the concentrations detected were less than the USEPA Region III RBCs.

• The concentration detected for sodium was less than the USEPA Region III RBC, but exceeds the FDEP guidance concentration. It is likely that sodium is related to the seawater contained in the dredge materials pumped into the eastern dredge spoil basin (SWMU 50) during maintenance dredging.

The default assumptions used in estimating risk based bench mark concentrations may not be representative and likely overstate the specific exposure present at the site (i.e., underestimate the concentration that would result in a lifetime excess cancer risk of 10^{-6}). Because the chemicals were detected in only one or two media (i.e., soil and or groundwater) all of the exposure pathways and assumptions used to estimate the bench mark concentrations are not relevant. Therefore, the concentrations may exceed the bench mark values (USEPA, 1994, USEPA, 1995, and FDEP, 1995) but actually result in a lower excess cancer risk than 10^{-6} .

6.0 SWMU 19, NAVAL AVIATION DEPOT (NADEP) BLASTING AREA

6.1 SITE DESCRIPTION AND BACKGROUND. The NADEP Blasting Area (SWMU 19) is located north of NADEP Buildings 1470 and 1471, approximately 25 feet from the St. Johns River. The area was used for abrasive blasting of unpainted aircraft carrier parts, including catapult and arresting gear for carrier flight decks. Abrasive blasting was conducted in this area from approximately 1981 until 1989. The area, approximately 75 feet in diameter, is outside and blasting occurred on a blasting rack that is located over bare soil. According to the visual site inspection (VSI) conducted as part of the RFA (A. T. Kearney, 1989), the abrasive used in blasting is Black Beauty, a slag product marketed for sand blasting purposes.

The soils at SWMU 19 are predominately sand, and the area is located along the edge of the St. Johns River. At the time of the VSI in 1989, Black Beauty was piled on the ground around the blasting grate and spread over an area approximately 75 feet in diameter. According to the RFA, facility personnel noted that the Black Beauty abrasive blasting media had not been collected or removed from the area since operations began there in 1981. The RFA recommended that soil samples be collected in visually contaminated areas between the blasting rack and the river, and that sediment samples be collected from St. Johns River sediments in the vicinity of SWMU 19. Due to the nature of the blasting area operation and abrasive blasting media, it was recommended that all samples collected be analyzed for metals (A. T. Kearney, 1989).

To determine the appropriate disposal methods for the blasting media at the site, the RFA recommended that the residual abrasive blasting media be tested for extraction procedure (EP) toxicity.

During July 1989, five surficial soil samples were collected by Enviropact, Inc., from the area where the Black Beauty residual was located (Figure 6-1). The soil samples were analyzed by the extraction procedure for toxicity testing (EP toxicity). A summary of the EP toxicity analytical results is provided in Table 6-1. None of the regulatory criteria for classifying a material as hazardous waste were exceeded (Enviropact, 1989). However, since these samples were collected and the test results obtained, the USEPA has adopted the new analytical methodology, the TCLP, to assess whether a material would be classified as hazardous. Therefore, as part of the RFA SV, three samples of the residual Black Beauty material were collected and analyzed by the TCLP analytical method to assess whether it would be classified as hazardous waste.

6.2 RFA SV FIELD INVESTIGATIONS. RFA SV field investigations at SWMU 19 included collection of surface soil, subsurface soil, and sediment samples. Soil and sediment sampling was conducted on June 30, 1994. The objectives of the data gathering activities at SWMU 19 were to collect soil and sediment samples to confirm whether contamination is present at the site. The RFA SV sampling and analytical objectives did not include characterization of the horizontal and vertical extent of contaminants.

Six surface soil samples, six subsurface soil samples, and three sediment samples were collected at SWMU 19. Site-specific reference samples also were collected,

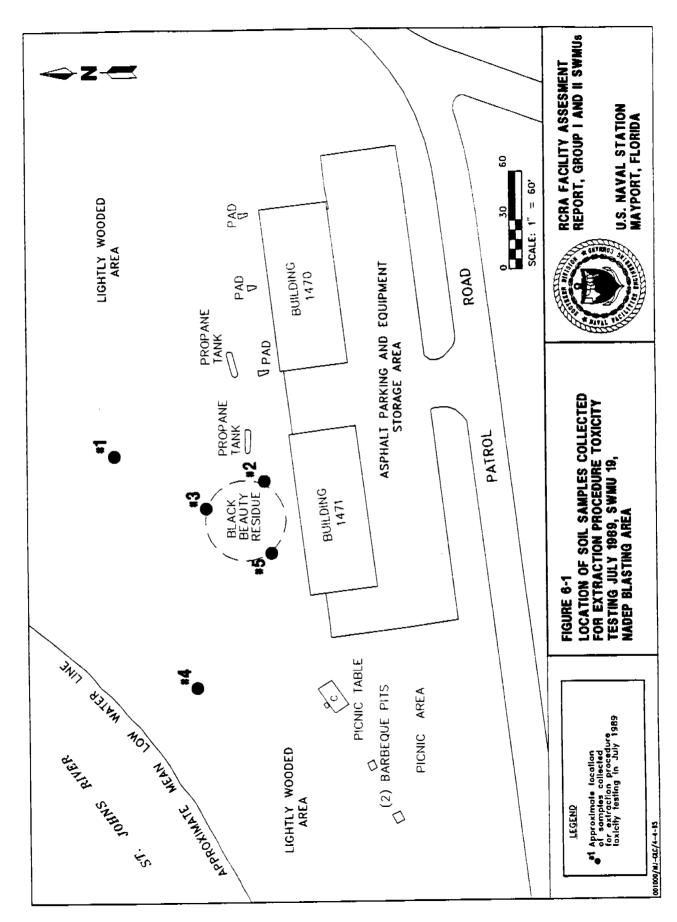


Table 6-1 Extraction Procedure Toxicity Analytical Results for Soil Samples at SWMU 19, 1989

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

			Sample Numb	per		Extraction Procedure Toxicity
Parameter	1	2	3	4	 5	Regulatory Criteria
Arsenic	<0.05	< 0.05	<0.05	<0.05	<0.05	5.0
Barium	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	100.0
Cadmium	<0.5	< 0.5	< 0.5	<0.5	<0.5	1.0
Chromium	<0.5	<0.5	< 0.5	< 0.5	< 0.5	5.0
Lead	< 0.5	< 0.5	<0.5	<0.5	<0.5	5.0
Mercury	< 0.01	0.03	0.01	< 0.01	0.02	0.2
Selenium	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	1.0
Silver	< 0.5	< 0.5	<0.5	< 0.5	<0.5	0.5
Note: Concentrati	ons of extract	in milligrams	per liter So	urce: Enviropac	rt, 1989	·

MPT-19-SS06 for surface soil, MPT-19-BS06 for subsurface soil, and MPT-19-SD01 for sediment (Figure 6-2).

Soil and sediment sample locations were chosen to bias the sampling toward areas most likely to be contaminated based on land surface topography and site conditions at the time of sampling. In addition, three discrete samples, MPT-19-Z-001, MTP-19-Z-002, and MPT-19-Z-003, of the Black Beauty blasting media were collected for analysis by TCLP (USEPA Method 1311).

Surface and subsurface soil sampling was conducted in areas where Black Beauty was observed and sediment sampling was conducted along the shoreline of the St. Johns River in areas topographically downgradient of the blasting area. The surface soil samples were collected from the land surface to a depth of 1 foot bls. The subsurface soil samples were collected from 2 to 3 feet bls except MPT-19-BS02, which was collected from 2.5 to 3 feet bls. A 6-inch-thick piece of concrete was encountered from 2 to 2.5 feet bls at the location of MPT-19-BS02. The sediment samples were collected at a low tide stage from the land surface to a depth of 1 foot bls. No corresponding surface water samples were collected with the sediment samples.

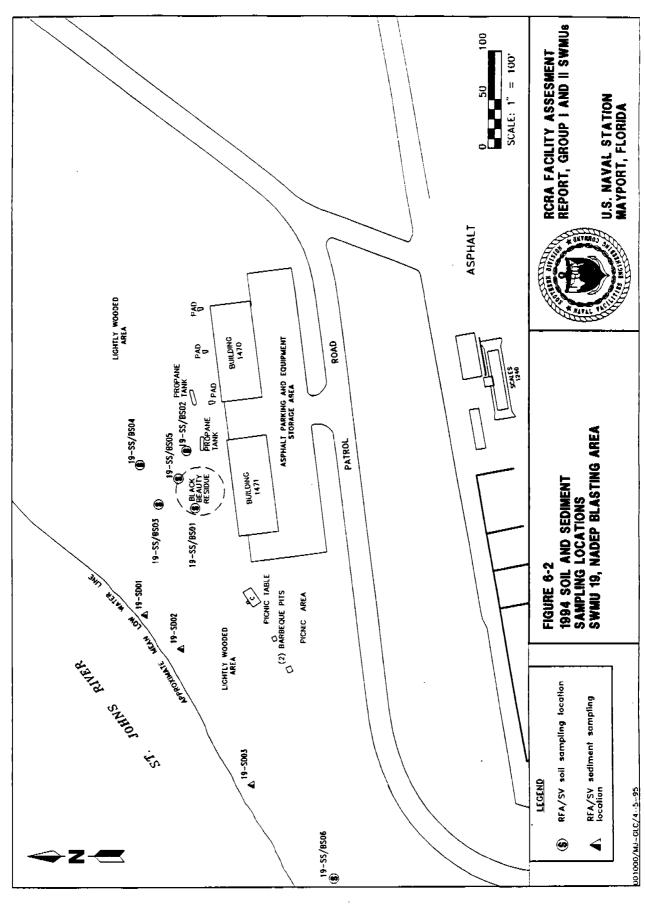
Because many field activities are common to all NAVSTA Mayport SWMUs, the sampling procedures for RFI and RFA SV (confirmatory sampling) events are described in Section 2.1, Summary of Exploration and Sampling Program, of the NAVSTA Mayport GIR (ABB-ES, 1995b). Site-specific elements and deviations from sampling procedures, if any, particular to SWMU 19 are discussed in subsequent paragraphs, and standard operating procedures are referenced where necessary. Surface water and sediment sampling procedures and associated equipment decontamination procedures were conducted in general conformance with USEPA Region IV standard operating procedures (USEPA, 1991a).

Soil Sample Collection Procedure. Surface and subsurface soil sampling was accomplished as described in the NAVSTA Mayport RFI workplan (ABB-ES, 1991), and Subsection 2.1.1, Soil Sampling, of the GIR (ABB-ES, 1995b).

Sediment Sample Collection Procedure. Sediment sampling was accomplished as described in the NAVSTA Mayport RFI workplan (ABB-ES, 1991) and Subsection 2.1.3, Surface Water, Sediment, and Sludge Sampling, located in the GIR (ABB-ES, 1995b).

Laboratory Analyses. Surface and subsurface soil and sediment samples were analyzed for the same target analytes including VOCs, SVOCs, pesticides, PCBs, metals, and cyanide selected from the groundwater monitoring list presented in Appendix IX, 40 CFR 264, and USEPA Contract Laboratory Program target compound list and target analyte list. The environmental samples were analyzed using methods from Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW 846) (USEPA, 1986). A sample of the Black Beauty™ abrasive blasting media was collected for analysis by TCLP (USEPA Method 1311). A list of the target analytes is provided in Appendix A and complete analytical results are provided in Appendix B.

<u>6.3 FINDINGS</u>. The following presents analytical results for surface and subsurface soil samples, sediment samples, and the Black Beauty abrasive blasting media.



Surface and Subsurface Soil Sample Analytical Results. Tables 6-2 and 6-3 summarize the validated analytical results for organic and inorganic target analytes, respectively, detected in surface and subsurface soil samples collected at SWMU 19. A summary of frequencies of detection, range of detection limits, range of detected concentrations, arithmetic mean, and bench mark comparison values are provided in Tables 6-4 and 6-5 for surface and subsurface soil samples, respectively. Bench mark comparison values consist of background screening values computed from station wide surface and subsurface soil samples (ABB-ES, 1995b), the USEPA soil screening guidance values (USEPA, 1994), USEPA Region III RBC (USEPA, 1995), and the State of Florida cleanup goals (FDEP, 1995). The state of Florida cleanup goals consisted of residential values for surface soil and industrial worker values for subsurface soil.

Each of the bench mark criteria provided in Tables 6-4 and 6-5 are human health based and represent the lower of either a noncarcinogenic HI of 1, where values of less than 1 represent a concentration where noncarcinogenic effects are not likely, or a lifetime excess cancer risk of 10^{-6} , which represents a chance of 1 in 1,000,000 for an adverse carcinogenic effect for a continuous lifetime exposure. The concentrations listed for the USEPA Region III RBCs correspond to an HI of 0.1, whereas the USEPA Superfund SSLs and the State of Florida cleanup goals are based on an HI of 1. The NCP (40 CFR, Part 300) states that for carcinogens a lifetime excess cancer risk in the range of 10^{-4} (a chance of 1 in 10,000 for an adverse carcinogenic effect for a continuous lifetime exposure) to 10^{-6} represents concentrations that are considered by USEPA to be protective of human health.

Surface Soil. The surface soil at SWMU 19 typically consists of sands with shell fragments. Target analytes detected in the surface soil samples consist of 2 SVOCs (benzo(b)fluoranthene and bis(2-ethylhexyl)phthalate), 2 pesticides (4,4'-DDT and 4,4'-DDE), and 11 inorganics (arsenic, barium, beryllium, cadmium, chromium, copper, lead, nickel, selenium, vanadium, and zinc) (see Tables 6-2 and 6-3). VOCs and PCBs were not detected in the surface soil samples.

<u>Subsurface Soil</u>. Target analytes detected in the subsurface soil samples consist of 1 VOC (trichloroethene), 3 pesticides (chlorobenzilate, endrin ketone, and 4,4'-DDD), and 10 inorganics (arsenic, barium, beryllium, chromium, copper, lead, selenium, vanadium, zinc, and cyanide) (see Tables 6-2 and 6-3). SVOCs and PCBs were not detected in the subsurface soil samples.

Sediment Sample Analytical Results. Table 6-6 summarizes the validated analytical results for inorganic target analytes detected in sediment samples collected at SWMU 19. A summary of frequencies of detection, range of detection limits, range of detected concentrations, arithmetic mean, and bench mark comparison values are provided in Table 6-7. Bench mark comparison values for the SWMU 19 sediment samples consist of station wide background sediment samples (ABB-ES, 1995b), ER-L and ER-M values from The Potential for Biological Effects of Sediment-sorbed Contaminants Tested in the National Status and Trends Program, NOAA (Long and others, 1993), and TEL and PEL from Approach to the Assessment of Sediment Quality in Florida Coastal Waters, (McDonald, 1994).

Target analytes detected in the sediment samples consist of nine inorganics (arsenic, barium, beryllium, chromium, copper, lead, vanadium, zinc, and

Table 6-2 Organic Analytes Detected in Soil Samples at SWMU 19

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

		waypo	nt, Florida					
Analytical Batch No.:	R82	271	R827	71	R827	71	R827	1
Sample Location:	MPT-19	9-SS01	MPT-19	-SS03	MPT-19-	SS05	MPT-19-	SS06
Sample No.:	19880	01Dup	1988	003	1988	005	19880	006
Date Sampled:	06/3	0/94	06/30	/94	06/30	/94	06/30	/94
Sample depth (ft bis):	0 t	o 1	0 to	1	0 to	1	0 to	1
Common Name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
VOCs, Soil (µg/kg)							;	
Trichloroethene	-				_		-	
SVOCs, Soil (µg/kg)								
Benzo(b)fluoranthene			79	J	_	l	i –	
bis(2-Ethylhexyl)phthalate	7 2	J	_		-		-	ļ
Pesticides, Soil (µg/kg)								
Chlorobenzilate	-		-		-		-	ŀ
Endrin ketone	-		-		-		-	
4,4'-DDT	-		-		3.3	J	3.4	J
4.4'-DDE					2.2	J	1.3	J
4,4'-DDD			_			<u> </u>	<u> </u>	

See notes at end of table.

Table 6-2 (Continued) Organic Analytes Detected in Soil Samples at SWMU 19

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

	Maypo	rt, Florida				
Analytical Batch No.:	R82	271		- 1	R82	
Sample Location:	MPT-19	9-BS01	MPT-19-	BS01	MPT-19	-8504
Sample No.:	1989	3001	19BS00	1Dup	19BS	004
Date Sampled:	06/3	0/94	06/30	/94	06/30)/ 94
Sample depth (ft bis):	2 t	o 3	2 to	3	2 to	3
Common Name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
VOCs, Soil, (µg/kg)		<u> </u>			1	
Trichloroethene	_		-		2	J
SVOCs, Soil, (µg/kg)		}		ŀ	1	
Benzo(b)fluoranthene	-				-	
bis(2-Ethylhexyl)phthalate			-		_	
Pesticides, Soil, (µg/kg)		1			1	
Chlorobenzilate	-		-		34	J
Endrin ketone	-		16		-	
4,4'-DDT			-		-	
4,4'-DDE	_	1	-		-	
4,4'-DDD	2.5	<u> </u>	7.6	J		

Notes: Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA)
Level C.

Suffix Dup = identifies the duplicate of the corresponding environmental sample.

ft bis = sample collection depth in feet below land surface.

Conc. = concentration.

Qual. = qualifier.

VOCs = volatile organic compounds.

 μ g/kg = milligrams per kilogram.

- = analyte not detected.

SVOCs = semivolatile organic compounds.

"J" = estimated value.

			Inorga	ınic Ana	Table 6-3 rganic Analytes Detected in Soil Samples at SWMU 19	Table 6-3 ected in Sc	F3 Soil Sam	ples at t	SWMU 1	•				- -
					Groups ∪ U. N	s I and II RFA SV F U.S. Naval Station Mayport, Florida	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida							
Analytical Batch No.:	82	R8271	R8271	<u>-</u>	R8271	ļ "	R8271	<u>.</u>	H8271		R8271		R8271	
Sample Location:	MPT-1	MPT-19-SS01	MPT-19-SS01	-SS01	MPT-19-SS02	2088	MPT-19-SS03	SS03	MPT-19-SS04	.SS04	MPT-19-SS05	SS05	MPT-19-SS06	9088
Sample No.:	198	1988001	19SS001Dup	11Dup	1955002	- Z	1955003		1988004	904	19SS005	205	1988006	90
Date Sampled:	2/90	06/30/94	06/30/94	1/94	06/30/94	/94	06/30/94	/94	06/30/94	/94	06/30/94	/94	06/30/94	94
Sample depth (ft bis):	6	0 to 1	0 to 1	-	0 to 1	_	0 to 1	1	0 to 1	_	0 to 1	_	0 to 1	_
Soli (mg/kg)	Conc	Qual.	Conc.	Ouat.	Cone.	Qual.	Сопс.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
Arsenic	0.58	- ا	0.5	7	0.88	٦	0.56	7	0.5	7	1.2	7	0.39	_
Bartum	23.7	ה	7.8	ſ	4.8	٦	2.5		2.0	7	13.2	7	1.8	7
Beryllium	4.0	ے_	0.09	7	0.08		7.0	7	ı		0.26		:	
Cadmium	0.38	¬	1.0	7	0.22	7	;		ı		ı		0.22	ŋ
Chromium	15.8	ל	5.0	7	9'1		2.5	٦	2.3	7	5.0	7	2.1	7
Copper	9.7	ר	5,3	7	2.9	ה	2.3	7	1.8	¬	2.7	ب	6.1	٦ .
Lead	11.4	<u> </u>	2,2	7	1.1	7	1.6	7	1,2	7	2.7	٦	5.	•
Nickel	4.0	ל	i		1		: -		:		6.1	7	ı	
Selenium	0.14	-	1		1		1		i		1		:	
Vanadium	7.8	¬	3.0	٦	3.8	7	t.	7	4 .	~	7.3	7	1.2	٦.
Zinc	32.6	~	10.8	¬	9. 8.	¬	4.0	~	4.9	¬	8.7	¬	r.c	٠
Cyanide	1		;		;		ı		;		:		1	
See notes at end of table.	Je.													

			Inorga	nic Ana	Table lytes Det	e 6-3 (Co	Table 6-3 (Continued) s Detected in Soil Sam	nples at	Table 6-3 (Continued) anic Analytes Detected in Soil Samples at SWMU 19	G				
					Groups	s I and II RFA SV F U.S. Naval Station Mayport, Florida	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	t						
N description	HA271	[R8271	-	R8271		R8271	-	H8271		R8271	<u>-</u>	R8271	Έ.
Analytical batter 140	MPT-19-BS01	-BS01	MPT-19-BS01	.BS01	MPT-19-BS02	-BS02	MPT-19-BS03	BS03	MPT-19-BS04	BS04	MPT-19-BS05	BS05	MPT-19-BS06	.BS06
Sample Locaron	19BS001	3001	19BS001Dup	110up	19BS002	700	19BS003	203	19BS004	90	19BS005	305	1985006	900
Date Sampled:	E/90	06/30/94	06/30/94	/94	06/30/94	/94	06/30/94	/94	06/30/94	/94	06/30/94	/94	06/30/94	1/94
Sample denth (ft bis):	- 5 - 5	2 to 3	2 to	to 3	2 to 3	9	2 to 3	9	2 to 3	6	2 to 3	8	2 to 3	<u>د</u>
Soil (mg/kg)	Conc.	Qual.	Canc.	Qual.	Canc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
Common Natrie	0.64	_	0.72	7	1.6	7	1.0	7	1.3	7	0.72	٦	0.65	-
A sellic Baring	5.0	ت	1.6	ה	5.6		2.0	2	2.1	~	2.5		5.3	-
Beryllium	0.7	7	0.7	ל-	!		1		1		0.7	-	0.12 21	¬
Cadmium	1		:		!		ı		ı		1		ı ¦	
Chromium	2.3		2.0	<u> </u>	2.3		8:-	7	2.5		2.9		5.7	
Copper	1:0		0.83	¬	1.3	-	<u>-</u> -	ئ	6:0	-	9.0	¬ 	0.77	·
Lead	7		0.92		3.5	z	0.75		0.84	z 	0.			
Nickel	1		;		ı		1		1		1		ŀ	
Selenium	ı		1		0.13	<u>-</u>	;		:	_	1		; ;	_
Vanadium	1.7	7	<u>,</u>	¬	F.	<u>-</u>	1	<u>-</u>	2.1	-	6.	<u> </u>		· —
Zinc	1		1		8.4		t -		7.9		1			
Cyanide	0.21	7	1		_				,		<u>:</u>			
							Cleve Living	ر ج						

Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C. Suffix Dup = identifies the duplicate of the corresponding environmental sample. Notes:

It bis = sample collection depth in feet below land surface.

mg/kg = milligrams per kilogram.

Conc. = concentration.

Qual. = qualifier.

"J" = estimated value.

= analyte not detected.

MP-GI&II.RFA ASW.11.95

		Chem	icals of Poten	Table 6-4 Chemicals of Potential Concern in Surface Soils at SWMU 19	-4 n Surface S	oils at SWMU	19			
			Ü	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	4 SV Report tation orida	,		!		
Analyte	Frequency of Detection	Range of Reporting Limits	Range of Detected Concentrations (*) ²	Mean of Detected Concentrations ³	Background Screening Value	Risk Based Screening Concentration ⁵	Superfund Proposed Soil Screening Levets	Cleanup Goals for the Military Sites In Florida7	Analyte CPC? (Yes/No)	Reason
Volatiles (µg/kg)										
No Analytes Detected										
Semivolatiles (µg/kg)										
Benzo(b)fluoranthene	1/5	680 to 690	62	79	Q	880	006	1,400	2	S, P, G
bis (2-Ethy/hexyl) phthalate	1/5	340 to 690	206*	206	Q	46,000	46,000	45,000	8	S, P, G
Peeticides/PCBs (µg/kg)										
4,4'-DDE	1/5	0.69 to 0.7	3.3	3.3	2.3	1,900	2,000	2,900	2	S, P, G
4,4'-DDT	1/5	1.3 to 1.4	2.2	2.2	9	1,900	2,000	3,100	<u>8</u>	S, P, G
inorganica (mg/kg)										
Arsenic	5/2	E Z	0.5 to 1.2	0.74	Q	°0.37	0.4	°0.7	Yes	
Barium	5/2	R	2 to 15.75*	7.7	S.	550	5,500	5,000	Š	S, P, G
Beryllium	4/5	0.06 to 0.06	0.07 to 0.26	0.16	0.16	0.15	0,1	0.1	Yes	-
Cadmium	2/5	0.21 to 0.21	0.22 to 0.69*	0.45	8	3.9	38	37	S	e c
Chromium	5/2	Ë	1.6 to 10.4*	4.4	2.6	6601	06E ₀₁	150	2	S, P, G
Copper	5/2	R R	1.8 to 7.5*	е. 4	2.2	290	A A	2,900	S _O	S S
Lead	2/2	R	1.1 to 7.8*	2.9	2	1,400	1,400	1,500	S N	R. P.
Nickel	2/5	0.6 to 1.2	1.9 to 2.3*	2.1	2	160	1,600	1,500	8	R P D
Selenium	1/5	0.06 to 0.13	0.1*	0.1	1.36	33	390	330	2	8
Vanadium	2/5	ĸ.	1.4 to 7.3	3.9	4	22	920	480	운	S, P, G
Zinc	5/2	N.	3.8 to 21.7*	2.6	2.6	2,300	23,000	23,000	2	S, P.G
See notes on next page.										

Chemicals of Potential Concern in Surface Soils at SWMU19 Table 6-4 (Continued)

Groups I and # RFA SV Report U.S. Naval Station Mayport, Florida

Value indicated by asterisk is the average of a sample and its duplicate. For duplicate samples having one nondetected values, 1/2 the contract required quantitation limit or Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected values) contract required detection limit (CRDL) is used as a surrogate.

The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected including values qualified with a "J"; it does not include those samples where the analyte was not detected ("U" or "UJ" qualifiers) and rejected ("R" qualifier)

The background screening value is twice the average of detected concentrations for inorganic analytes in background samples. Organic values are one times the mean of detected concentration. Organic values are included for comparison purposes only.

EPA/903/R-93-001) was used for screening. Actual values are taken from the USEPA Region III RBC tables dated February 1995, and are based on a cancer risk of 10° and an concentrations (RBC) for residential surface soil exposure per January 1993 guidance (Selecting Exposure Routes and Contaminants of Concern by Risk-Based Screening. For all chemicals except the essential nutrients (calcium, iron, magneslum, potassium, and sodium), U.S. Environmental Protection Agency (USEPA) Region III risk based

Values are taken from the Florida Department of Environmental Protection memorandum, Cleanup Goals for Military Sites in Florida, dated April 5, 1995. The values are for the Source: USEPA. December, 1994. Soil Screening Guidance, Review Draft, USEPA, Office of Solid Waste and Emergency Response, Washington, D.C., EPA/540/R-94/101. adjusted hazard quotient of 0.1. For the essential nutrients, screening values were derived based on recommended daily allowances (RDAs).

aggregate resident based on a cancer risk of 10° and the child resident based on a hazard quotient of 1.

Analytes were included or excluded from the risk assessment for the following reasons:

S = the maximum detected concentration did not exceed the screening concentration and will not be considered further.

C = the analyte is a member of a chemical class that contains other chemicals of potential concern (CPCs) (i.e., carcinogenic polynuclear aromatic hydrocarbons [PAHs]).

M = the analyte was detected at less than 5 percent and is a CPC in more than one media.

P = the maskimum detected concentration did not exceed the USEPA proposed soil screening levels (SSLs), 9355.4-14FS, dated December 1994. G = the maximum detected concentration did not exceed the Florida cleanup goals and will not be considered further.
B = the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at background locations.
F = the frequency of detection was less than 5 percent and professional judgment was used to exclude analyte from further study.

= the maximum detected concentration did not exceed the USEPA proposed soil screening levels (SSLs), 9355.4-14FS, dated December 1994.

The value is based on arsenic as a carcinogen. ₽

USEPA Office of Solid Waste and Emergency Response (OSWER) Directive No. 9355.4-12 revised interim recommended soil cleanup for Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Resource Conservation and Recovery Act (RCRA) sites. Ξ

The average of a sample and its duplicate is used for all table calculations. Notes: Sample locations include: 19SS01, 19SS02, 19SS03, 19SS04, and 19SS05.

Background sample locations include: MPT-B-SS1; MPT-B-SS2; MPT-B-SS3; MPT-B-SS4; MPT-B-SS5; and MPT-B-SS6. Sample duplicates: 19SS01D.

Duplicate background sample locations include: MPT-B-SS1DUP

DDE = dichlorodiphenyldichloroethene. DDT = dichlorodiphenyltrichloroethane. PCBs = polychlorinated biphenyls. SWMU = solid waste management unit. CPC = chemicals of potential concern.

NA = not reported; analyte detected in each sample; reporting limits are same as range of detected concentrations. mg/kg = milligrams per kilograms. µg/kg = micrograms per kilograms.
 ND = not detected in any background samples.
 NA = not available.

				Tab	Table 6-5					
ü		ξ	emicats of Po	Chemicals of Potential Concern in Subsurface Soil at SWMU 19	n in Subsur	face Soil at S'	WMU 19			
				Groups Land U.S. Na Maypo	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	τ.				
Analyte	Frequency of Detection	Range of Reporting Limits	Range of Detected Concentrations	Mean of Detected Concentrations ³	Background Screening Value [‡]	Risk Based Screening Concentration ⁵	Superfund Proposed Soil Screening Levels ⁸	Cleanup Goals for the Military Sites in Florida?	Analyte CPC? (Yes/No)	Reason
Volatiles (µg/kg)										
Trichloroethene	1/5	5 to 6	2	2	2	28,000	58,000	4,800	Š	S. P. G.
Semivolatiles (µg/kg)	6									
Chlorobenzilate	1/5	21 to 24	34	34	2	2,400	N A	Ā	Š	တ
Pesticides/PCBs (µg/kg)	g/kg)									
4,4'-000	1/5	1.4 to 1.6	5.05*	5.1	Q	2,700	3,000	17,000	2	လ ရ ပ
Endrin ketone	1/5	0.7 to 1.6	8.35*	8.4	Q	N A	Y Y	A	£	ιL
Inorganics (mg/kg)										
Arsenic	2/2	E Z	0.68* to 1.6	1.1	6:0	0.37	0.4	m	ž	_©
Barium	5/2	R.	1.8* to 2.6	2.2	7.2	550	5,500	74,000	ž	8
Beryllium	2/5	0.06 to 0.08	0.07*	0.07	0.14	0.15	0.1	0.2	ž	m
Chromium	2/2	æ	1.8 to 2.9	2.3	3.4	6£ ₀₁	10390	10220	Š	6 0
Copper	5/2	NA R	0.8 to 1.3	-	3.6	290	NA A	72,000	ž	₾
Lead	3/5	0.6 to 0.6	0.75 to 1.01*	0.92	2.8	11400	11400	1,000	욷	89
Selenium	1/5	0.13 to 0.15	0.13	0.13	9	33	390	006'6	Š	S, P, G
Vanadium	5/2	¥	1,45* to 3.1	2.1	3.2	22	250	4,800	2	œ
Zinc	5/2	4.35 to 6.4	7.9 to 8.4	9.2	6 .4	2,300	23,000	920,000	2	S, P, G
Cyanide	1/5	0.075 to 0.17	0.1425*	0.14	0.66	160	1,600	40,000	Ş	8
See notes on next page.	раде.									

Chemicals of Potential Concern in Subsurface Soil at SWMU 19 Table 6-5 (Continued)

Groups I and II RFA SV U.S. Naval Station Mayport, Florida

Value indicated by asterisk is the average of a sample and its duplicate. For duplicate samples having one nondetected values, 1/2 the contract required quantitation Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected values).

limit or contract required detection limit (CRDL) is used as a surrogate.

The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected including values qualified with a "J"; It does not Include those samples where the analyte was not detected ("U" or "UJ" qualifiers) and rejected ("R" qualifier)

The background screening value is twice the average of detected concentrations for inorganic analytes in background samples. Organic values are one times the mean

For all chemicals except the essential nutrients (calcium, iron, magnesium, potassium, and sodium), U.S. Environmental Protection Agency (USEPA) Region III risk based Screening, EPA/903/R-93-001) was used for screening. Actual values are taken from the USEPA Region III RBC tables dated February 1995, and are based on a cancer Source: USEPA. December, 1994. Soil Screening Guidance, Review Draft, USEPA, Office of Solid Waste and Emergency Response, Washington, D.C., EPA/540/Rrisk of 10° and an adjusted hazard quotient of 0.1. For the essential nutrients, screening values were derived based on recommended daily allowances (RDAs). concentrations (RBC) for residential surface soil exposure per January 1993 guidance (Selecting Exposure Routes and Contaminants of Concern by Risk-Based of detected concentration. Organic values are included for comparison purposes only.

Values are taken from the Florida Department of Environmental Protection memorandum, Cleanup Goals for Military Sites in Florida, dated April 5, 1995. The values are for the industrial worker based on a cancer risk of 10° and the child resident based on a hazard quotient of 1.

Analytes were included or excluded from the risk assessment for the following reasons:

G = the maximum detected concentration did not exceed the Florida cleanup goals and will not be considered further.

B = the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at background locations. S = the maximum detected concentration did not exceed the screening concentration and will not be considered further.

F = the frequency of detection was less than 5 percent and professional judgment was used to exclude analyte from further study.

C = the analyte is a member of a chemical class that contains other chemicals of potential concern (CPCs) (i.e., carcinogenic polynuclear aromatic hydrocarbons

= the maximum detected concentration did not exceed the USEPA proposed soil screening levels (SSLs), 9355.4-14FS, dated December 1994 M = the analyte was detected at less than 5 percent and is a CPC in more than one media.

The value is based on arsenic as a carcinogen.

2

USEPA Office of Solid Waste and Emergency Response (OSWER) Directive No. 9355.4-12 revised interIm recommended soli cleanup for Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Resource Conservation and Recovery Act (RCRA) sites.

Notes: The average of a sample and its duplicate is used for all table calculations.

Sample locations include: 19BS001, 19BS002, 19BS003, 19BS004, and 19BS005.

Background sample locations include: MPT-B-BS1; MPT-B-BS4; MPT-B-BS5; and MPT-B-BS6. Duplicate sample: 19BS001D.

Duplicate background sample tocations include: MPT-B-BS1DUP,

PCBs = polychlorinated biphenyls. SWMU = solid waste management unit. CPC = chemicals of potential concern. µg/kg = micrograms per kilograms.

not available

NR = not reported; analyte detected in each sample; DDD = dichlorodiphenyldichloroethene. mg/kg = milligrams per kilograms.

eporting limits are same as range of detected concentrations. ND = not detected in any background samples.

cyanide). VOCs, SVOCs, pesticides, and PCBs were not detected in the sediment samples (Table 6-6).

Black Beauty Blasting Media. Samples of the Black Beauty abrasive blasting media were collected to assess whether the material could be characterized as hazardous using the TCLP analysis (Table 6-8). Concentrations of barium, cadmium, and chromium were detected in the extracts. The results indicate that the Black Beauty does not meet the definition of a RCRA-characteristic hazardous waste.

6.4 PRELIMINARY RISK EVALUATION. The following presents an assessment of the surface soil, subsurface soil, and sediment samples collected at SWMU 19 with station wide background samples and bench mark values.

<u>Surface Soil Samples</u>. None of the SVOCs or pesticides detected in the surface soil samples exceeded the bench mark values. Two of the inorganic analytes, arsenic and beryllium, were detected in surface soil samples at concentrations that exceed bench mark values, which are based on a lifetime excess cancer risk of 10^{-6} (Table 6-4).

Arsenic was not detected in the background surface soil samples. The five surface soil samples and the duplicate collected at SWMU 19 and the reference sample (MPT-19-SS06) contained arsenic at concentrations that exceeded the USEPA Region III RBC (0.37 mg/kg) (Figure 6-2). The five soil samples and duplicate collected at SWMU 19 also contained arsenic at concentrations that exceeded the proposed Superfund SSL (0.4 mg/kg). The concentration of arsenic in the reference sample was less than this bench mark. Two samples contained arsenic at concentrations that exceed the FDEP cleanup goal (0.7 mg/kg).

Three samples contained beryllium at a concentration that exceeded the background screening value (0.16 mg/kg). Beryllium was not detected in the reference sample (MPT-19-SS06). Three samples contained beryllium at concentrations that exceed the USEPA Region III RBC (0.15 mg/kg) and the proposed Superfund SSL and the Florida cleanup goal of 0.1 mg/kg. The surface soil background screening value for beryllium also exceeds the bench mark values.

<u>Subsurface Soil Samples</u>. None of the VOCs, SVOCs, pesticides, or inorganics detected in the subsurface soil samples exceeded the bench mark values.

<u>Sediment Samples</u>. None of the eight inorganic analytes (arsenic, barium, beryllium, chromium, copper, lead, vanadium, and zinc) detected in the two sediment samples collected near SWMU 19 exceeded background screening values. The reference sample (MPT-19-SD03) contained concentrations of cyanide in addition to these analytes and did not contain beryllium.

Table 6-6 Inorganic Analytes Detected in Sediment Samples at SWMU 19

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

			Mayport, Flori	08				
Analytical Batch No.: Sample Location:	R827	\$ D 01	R827 MPT-19- 19SD00	SD01	R821 MPT-19 19SD	-SD02	R827 MPT-19-1	SD03
Sample No.:	19SD	001	ļ				00/00	(D.4
Date Sampled:	06/30	/94	06/30	/94	06/30)/ 94	06/30	/ 94
Sediment (mg/kg)	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
Common Name			 					
Arsenic	1.4	J	1.1	. J	1.4	J	1.5	J
Barium	6.0	J	5.8	J	4.4	J	2.6	J
Beryllium	0.11	J	0.1	J	-		-	
Chromium	1.3	J	1.2	J	-		1.8	J
Copper	0.6	J	0.95	J	0.42	J	0.6	J
Lead	1.0		0.76	Ì	0.52	J	0.78	
Vanadium	2.8	J	2.3	J	1.8	J	1.6	J
	9.2	J	_	1	5.3	J	6.8	J
Żinc	3.2		_		_	1	0.18	J
Cyanide		<u> </u>		1		<u> </u>		

Notes: Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C. Suffix Dup = identifies the duplicate of the corresponding environmental sample.

Conc. = concentration.

Qual. = qualifier.

mg/kg = milligrams per kilogram.

"J" = estimated value.

-- = analyte not detected.

		Cher	Table 6-7 Chemicals of Potential Concern in Sediment Sample at SWMU 19	Table 6-7 al Concern in Se	Sediment Sa	mple at S	WMU 19				
				Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	A SV Report Station orida						
	Frequency	Range of	Project Co.	Mean of	Background	Long and Others	Others	MacDonald	nald	Analyte CPC	
Analyte	of Detection	Reporting Limits	Concentrations(*) ²	Detected Concentrations ³	Screening Value*	ER-L ⁵	ER-M°	TEL,	PEL	(YES/NO)	невзоп
Voletiles (µg/kg)											
No Analytes Detected											
Semivolatiles (µg/kg)											
No Analytes Detected											
Pesticides/PCBs (µg/kg)	=										
No Analytes Detected											
inorganics (mg/kg)											1
Arsenic	2/2	Æ	1,25* to 1,4	1.3	5,4	8.2	20	7.24	41.6	Ş	6
Barium	2/2	R	4.4 to 5.9*	5.2	14.6	A A	¥	¥	ž	2	m
Beryllium	1/2	0.07 to 0.07	0.105*	0.11	0.54	₹	¥ Z	₹	ž	8	6 0
Chromium	1/2	0.61 to 0.61	1.3*	1.3	15.2	5	370	52.3	160	Š	Ð
Copper	2/2	E Z	0.42 to 0.775*	9.0	6.8	8	270	18.7	6 0	2	œ
Lead	2/2	S E	0.52 to 0.88*	2.0	9,2	46.7	218	30.2	112	8	
Vanadium	2/2	Z E	1.8 to 2.55*	2.5	14.8	¥ Z	Ą	¥ ¥	ž	8	
Zinc	2/2	2.95 to 2.95	5.3 to 6.075*	5,7	25.8	150	410	124	27.1	Š	5
See notes on next page.	6										

Chemicals of Potential Concern in Sediment Sample at SWMU 19 Table 6-7 (Continued)

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

Hange of Mean of Background Long and Others MacDonald Analyte CPC Reason Petected Screening ER-L ⁵ ER-M ⁶ TEL ⁷ PEL ⁸ (YES/NO)												
ER-L ⁵ ER-M ⁶ TEL ⁷ PEL ⁸	Bande of Bande of	Banga of Range of	Range of		Mean of	Background		Others	MacDona		nalyte CPC	Pageon "
בט-ר בייניון	of Reporting Detected	Reporting Detected	Detected	-	Detected	Screening		9Mg	TE17) JEF	YES/NO)	
	Detection Limits Concentration	Limits Concentration	Concentrati	ons	Concentrations	Value.	ı		1		1	

Value indicated by asterisk is the average of a sample and its duplicate. For duplicate samples having one nondetected values, 1/2 the contract required quantitation Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected values).

limit or contract required detection limit (CRDL) is used as a surrogate.

The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected including values qualified with a "J"; It does not include those samples where the analyte was not detected ("U" or "UJ" qualitiers) and rejected ("R" qualifier)

The background screening value is twice the average of detected concentrations for inorganic analytes in background samples. Organic values are one times the mean

Biological Effects within Ranges of Chemical Concentrations in Marine and Estuarine Sediments" by Long and other, National Oceanic and Atmospheric Administration, Effects range-low (ER-L) value represents a concentration intended to estimate conditions in which effects would be rarely observed. Source: "Incidence of Adverse of detected concentration. Organic values are included for comparison purposes only.

Effects range-median (ER-M) represents the concentration where effects would occasionally occur. Source: "Incidence of Adverse Biological Effects within Ranges of Chemical Concentrations in Marine and Estuarine Sediments" by Long and other, National Oceanic and Atmospheric Administration, 1993

Threshold Effects Level (TEL) is a concentration at which no effects have been observed in any test species or biological community. Source: "Approach to the

Probable Effects Level (PEL) is the lower concentration limits at which adverse effects may first be observed. Source: "Approach to the Assessment of Sediment Quality Assessment of Sediment Quality in Florida Coastal Waters" MacDonald, November 1994.

Analytes were excluded from the risk assessment for the following reasons: in Florida Coastal Waters" MacDonald, November 1994.

s = the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at background locations listed below (for inorganic compounds only).

L = the maximum detected concentration did not exceed the effects range-low (ER-L).

M = the maximum detected concentration did not exceed the effects range-median (ER-M).

 $N=the\ maximum\ detected\ concentration\ did\ not\ exceed\ the\ Threshold\ Effects\ Level\ (TEL)$. $P=the\ maximum\ detected\ concentration\ did\ not\ exceed\ the\ Probable\ Effects\ Level\ (PEL)$. the maximum detected concentration did not exceed the Probable Effects Level (PEL).

Notes: The average of a sample and its duplicate is used for all table calculations.

Sample locations include: 19SD001, 19SD002

Background sample locations include: MPT-B-SD1, MPT-B-SD2, MPT-B-SD3 MPT-B-SD4, MPT-B-SD5, MPT-B-SD6, MPT-B-SD7, and 00SD001

Duplicate background sample focations include: MPT-B-SD-3D, MPTBSD7D

SWMU = solid waste management unit.

CPC = chemicals of potential concern. μg/kg = micrograms per kilograms.

PCBs = polychlorinated biphenyls.

mg/kg = milligrams per kilograms.

NN = not reported; analyte detected in each sample; reporting limits are same as range of detected concentrations.

NA = not available.

Table 6-8 Toxicity Characteristic Leaching Procedure Testing of Black Beauty™ at SWMU 19

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

					-
Sample Identification: Date Sampled:	MPT-19-Z001 6/30/94	MPT-19-Z002 6/30/94	MPT-19-Z003 6/30/94	Toxicity Characteristic Limits (40 CFR 261.24)	Analytical Reporting Limit
Arsenic	< 0.015	< 0.015	< 0.015	5.0	0.015
Barium	0.68	0.76	0.65	100.0	0.001
Cadmium	0.0077	0.013	0.0021	1.0	0.001
Chromium	0.027	0.011	0.0072	5.0	0.003
Lead	< 0.025	< 0.025	< 0.025	5.0	0.025
Mercury	< 0.0002	< 0.0002	< 0.0002	0.20	0.0002
Selenium	< 0.035	< 0.035	< 0.035	1.00	0.035
Silver	< 0.002	<0.002	< 0.002	5.0	0.002

Notes: Result is milligrams per liter (mg/z) in extract. CFR = Code of Federal Regulations.

6.5 CONCLUSIONS AND RECOMMENDATIONS.

6.5.1 _ Conclusions

<u>Surface Soil Samples</u>. Target analytes detected in the surface soil samples consist of 2 SVOCs, 2 pesticides, and 11 inorganics (see Tables 6-2 and 6-3). VOCs and PCBs were not detected in the surface soil samples.

None of the SVOCs or pesticides detected in the surface soil samples exceeded the bench mark values. Two of the inorganic analytes, arsenic and beryllium, were detected in surface soil samples at concentrations that exceed bench mark values, which are based on a lifetime excess cancer risk of 10^{-6} (Table 6-4).

Concentrations of arsenic and beryllium exceeded human health based risk bench mark values which represent a lifetime excess cancer risk of 10^{-6} . However, the potential risk associated with observed concentrations of arsenic and beryllium is within a range (10^{-4} to 10^{-6}) that is considered by USEPA to be protective of human health (40 CFR Part 300) (see Table C-4, Appendix C).

<u>Subsurface Soil</u>. Target analytes detected in the subsurface soil samples consist of 1 VOC, 3 pesticides, and 10 inorganics (see Tables 6-2 and 6-3). SVOCs and PCBs were not detected in the subsurface soil samples.

None of the VOCs, pesticides or inorganics detected in the subsurface soil samples exceeded the bench mark values.

Black Beauty™ Blasting Media. The TCLP results indicate that the Black Beauty™ does not meet the definition of an RCRA-characteristic hazardous waste (40 CFR 261.24).

<u>Sediment</u>. None of the eight inorganic analytes detected in the two sediment samples collected near SWMU 19 exceeded background screening values. The results of the reference sample are comparable to the two sediment samples collected near SWMU 19. These analytical results suggest that the presence of the Black Beauty near the shoreline has not contributed to the inorganic constituents detected in these samples.

 $\underline{6.5.2}$ Recommendations SWMU 19 is recommended for no further investigation at this time based on the following rationale.

- No VOCs or PCBs were detected in the surface soil samples.
- None of the SVOCs (benzo(b)fluoranthene and bis(2-ethylhexyl)phthalate) or pesticides (4,4'-DDT and 4,4'-DDE) detected in the surface soil samples exceeded the bench mark values.
- Concentration of arsenic and beryllium detected in surface soil samples exceeded human health based risk bench mark values, which represent a lifetime excess cancer risk of 10^{-6} . However, the potential risk associated with observed concentrations of arsenic and beryllium is within a range (10^4 to 10^{-6}) that is considered by USEPA to be protective of human health (40 CFR Part 300).
- SVOCs and PCBs were not detected in the subsurface soil samples.

- None of the VOCs, pesticides or inorganics detected in the subsurface soil samples exceeded the bench mark values.
- Analytical results indicate that the Black Beauty[™] does not meet the definition of an RCRA-characteristic hazardous waste.
- None of the eight inorganic analytes (arsenic, barium, beryllium, chromium, copper, lead, vanadium, and zinc) detected in the two sediment samples collected near SWMU 19 exceeded background screening values.
- A non-time-critical removal action is planned in 1995 or 1996 to excavate and remove the Black Beauty $^{\text{\tiny M}}$.
- The default assumptions used in estimating risk based bench mark concentrations may not be representative and likely overstate the specific exposure present at the site (i.e., underestimate the concentration that would result in a lifetime excess cancer risk of 10⁻⁶). Because the chemicals were detected in only one or two media (i.e., soil and or groundwater) all of the exposure pathways and assumptions used to estimate the bench mark concentrations are not relevant. Therefore, the concentrations may exceed the bench mark values (USEPA, 1994, USEPA, 1995, and FDEP, 1995) but actually result in a lower excess cancer risk than 10⁻⁶.

7.0 SWMU 28, DEFENSE REUTILIZATION AND MARKETING OFFICE (DRMO) YARD

7.1 SITE DESCRIPTION AND BACKGROUND. The DRMO Storage Area (SWMU 28) is located in the northern part of NAVSTA Mayport on an abandoned asphalt runway, south of the former Oily Waste Pit (SWMU 6) and the Oily Waste Treatment Plant (OWTP) sludge drying beds (SWMU 7). The storage area is located on an abandoned runway approximately 1,300 feet long and 150 feet wide, oriented west to east parallel to the St. Johns River, and an area of runway that extends to the south approximately 800 feet from the west end of the SWMU. The entire DRMO area is fenced.

The DRMO Yard covers a large area (315,000 square feet); therefore, it was divided into three separate sections for descriptive purposes. The first two sections are located along the east-west runway, which is 1,300 feet long and 150 feet wide (195,000 square feet). Section 1 of SWMU 28 is 650 feet long and 150 feet wide and consists of the western half (97,500 square feet) of the abandoned east-west runway. Section 1 also contains a storage yard. SWMU 19 is located to the north of this section (Figure 7-1). Section 2 is 650 feet long and 150 feet wide and consists of the eastern half of the abandoned east-west runway and is also 97,500 square feet. SWMUs 6 and 7 are located to the north of this section (Figure 1-4). Section 3 of SWMU 28 is the rectangular area that extends at an angle to the southeast, 800 feet from the west end of the runway. The total area of Section 3 is 120,000 square feet. Formerly, Sections 1, 2, and 3 were used to store scrap metal and other items. Currently, Sections 1 and 3 are in the DRMO Yard and Section 2 is a parking area.

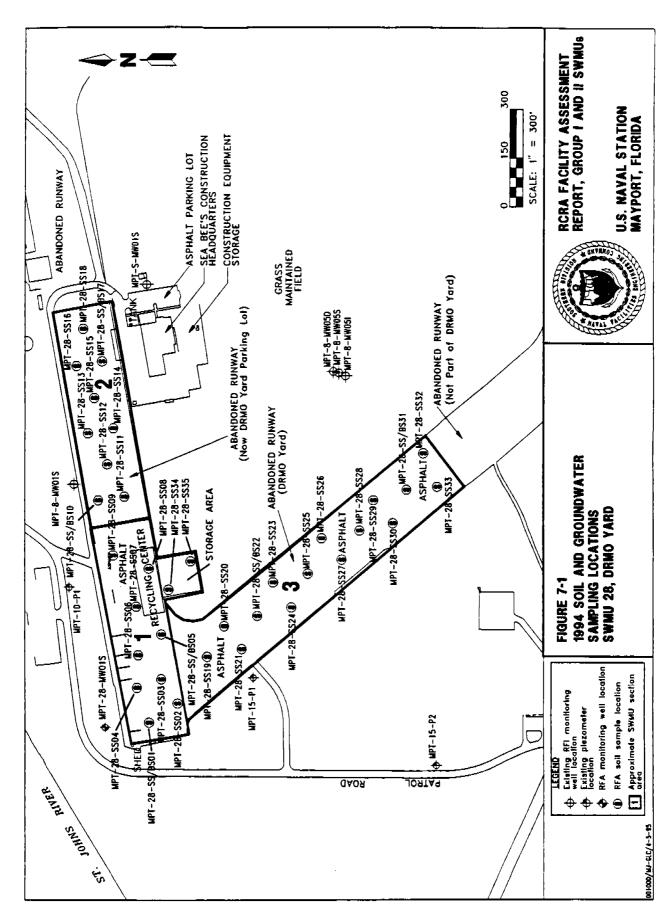
SWMU 28 is used for staging scrap metal and other items turned in to the DRMO for salvage. The area has been in use since 1967 and items stored there that may have leaked or spilled include transformers (oils and PCBs), paints (lead), and solvents (chlorinated and non-chlorinated). At the time of the VSI, vegetation was noted to be growing through the asphalt (A. T. Kearney, 1989).

SWMU 28 was identified as NIRP Site 10 in the IAS, in which it was estimated that less than 200 gallons of liquid had been spilled in the area (ESE, 1986). The RFA (A. T. Kearney, 1989) recommended that soil samples be collected in the vicinity of the runway pad, based on the inventory of materials stored at and possibly spilled in the area.

7.2 RFA SV FIELD INVESTIGATIONS. RFA SV field investigations at SWMU 28 included collection of surface soil, subsurface soil, and groundwater samples. Soil sampling was conducted from August 5 through August 10, 1994. Groundwater sampling occurred in June and August 1994.

Soil and groundwater sampling was conducted in the vicinity of the abandoned runway pad to assess the release of hazardous constituents at the site. The objectives of the data gathering activities at SWMU 28 were to obtain surface soil, subsurface soil, and groundwater samples to evaluate these media as potential exposure pathways.

The soil sampling program at SWMU 28 included collection of surface and subsurface soil samples within the DRMO Yard (Figure 7-1). Nine surface soil samples were collected at both Section 1 (MPT-28-SSO1 through MPT-28-SSO9) and



Section 2 (MPT-28-SS10 through MPT-28-18). Fifteen surface soil samples were collected in Section 3 (MPT-28-SS19 through MPT-28-SS33). Two surface soil samples were collected in the storage area behind the recycling center on the south side of Section 1 (MPT-28-SS34 and MPT-28-SS35).

The surface soil samples were located in a staggered triangular pattern to achieve the most effective coverage of the DRMO Yard. Surface soil sample locations were chosen to bias the sampling toward areas most likely to be contaminated based on existing site knowledge. Some sample locations were adjusted within a radius of approximately 30 feet from the proposed location to areas evidenced by staining or asphalt cracking noted at the time of sampling.

Two subsurface soil samples were collected from each of the three sections in the DRMO yard. Subsurface samples were collected from the following locations:

- Section 1, samples MPT-28-BS01 and MPT-28-BS05;
- Section 2, samples MPT-28-BS10 and MPT-28-BS17; and
- Section 3, samples MPT-28-BS22 and MPT-28-BS31 (Figure 7-1).

The locations of the subsurface soil samples were selected based on two criteria. One subsurface soil sample location was selected based on screening each surface soil sample with an organic vapor analyzer (OVA). Within each section, the location of the surface soil sample with the highest OVA measurement was selected for collecting the subsurface soil sample. The other subsurface soil sample location was selected in the area with the most surface soil staining. If either of these conditions were not met, one sample was collected from the center of the sampling area and one sample was collected from an area that exhibited pavement deterioration or cracking.

At each of the subsurface soil sample locations, a boring was augered by hand from the land surface to the water table and samples were collected at discrete 2-foot intervals. An OVA was used to screen each subsurface soil sample. The sample with the highest OVA measurement was selected for laboratory analyses. When organic vapors were not detected, the sample was collected from 3 to 4 feet bls with the exception of sample 28BSO0106, which was collected from 5 to 6 feet bls because the groundwater table was deeper at this location than at the other locations.

Groundwater samples were collected from three monitoring wells and two piezometers located near SWMU 28 (Figure 7-1). Piezometers are installed and constructed the same as shallow monitoring wells. These wells included monitoring wells MPT-8-MW01S, MPT-8-MW05S, and MPT-28-MW01S, and piezometers MPT-10-P01 and MPT-15-P01. Monitoring well MPT-8-MW01S is located adjacent to SWMU 7, the OWTP Sludge Drying Beds, and was sampled previously during the RFI activities for SWMUs 6 and 7 (January 1993). Monitoring well MPT-8-MW05S is located in the maintained field between two of the runway sections, and is one of the station wide background monitoring wells. Monitoring well MPT-8-MW05S has been previously sampled (January 1993). Monitoring well MPT-28-MW01S and piezometers MPT-10-P01 and MPT-15-P01 were sampled for the first time during the 1994 RFA SV investigations.

Because many field activities are similar for all NAVSTA Mayport SWMUs, the sampling procedures for RFI and RFA SV (confirmatory sampling) events are described in Section 2.1, Summary of Exploration and Sampling Program, of the

NAVSTA Mayport GIR (ABB-ES, 1995b). Site-specific elements and deviations from sampling procedures, if any, particular to SWMU 28 are discussed in subsequent paragraphs, and standard operating procedures are referenced where necessary. Monitoring well installation, soil and groundwater sampling procedures, and associated equipment decontamination procedures were conducted in general conformance with USEPA Region IV standard operating procedures (USEPA, 1991a).

<u>Soil Sample Collection Procedure</u>. Surface and subsurface soil sampling was accomplished as described in the NAVSTA Mayport RFI workplan (ABB-ES, 1991), and Subsection 2.1.1, Soil Sampling, of the GIR (ABB-ES, 1995b).

Monitoring Well Installation Procedure. Drilling and well installation were accomplished as described in the NAVSTA Mayport RFI (ABB-ES, 1991), and Subsection 2.1.1, Monitoring Well and Piezometer Installation, of the GIR (ABB-ES, 1995b).

Groundwater Sample Collection Procedure. Groundwater sampling was accomplished as described in Subsection 2.1.4, Groundwater Sampling, of the GIR (ABB-ES, 1995b).

Laboratory Analyses. Soil and groundwater samples were analyzed for the same target analytes including VOCs, SVOCs, pesticides, PCBs, metals, and cyanide selected from the groundwater monitoring list contained in Appendix IX, 40 CFR 264, and USEPA Contract Laboratory Program target compound list and target analyte list. The environmental samples were analyzed using methods from Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW 846) (USEPA, 1986). A list of the target analytes is provided in Appendix A and analytical results are provided in Appendix B.

7.3 FINDINGS. The following presents a brief description of the results of the RFA SV sampling activities at SWMU 28. The findings include site geologic and hydrogeologic conditions and results of the analyses of surface and subsurface soil samples and groundwater samples.

Site Geology Lithologic information in the vicinity of SWMU 28 is obtained from one soil boring drilled in June 1994 at SWMU 28 for the installation of a shallow monitoring well (monitoring well with screen placed across the water table) and four monitoring wells (MPT-8-MWO1S, MPT-8-MWO5S, MPT-10-PO1, and MPT-15-PO1) located near SWMU 28 (Figure 2-1). Boring logs are found in the GIR, Appendix A, Boring Logs (ABB-ES, 1995b).

Subsurface soils encountered during installation of other monitoring wells near SWMU 28 had minimal variation over the lateral distance between each location. The following is a description of the subsurface soils encountered at each of the five locations.

- Boring MPT-8-MW05S (located on the southeastern side of SWMU 28) encountered a sand from the land surface to the explored depth of approximately 15.0 feet. A 3-inch thick seam of organic rich sand was encountered at a depth of approximately 10.0 feet bls.
- Boring MPT-8-MW01S (northeastern side of SWMU 28) encountered sand from the land surface to an explored depth of approximately 17.0 feet.

- Boring MPT-10-P01 (north central side of SWMU 28) encountered sand from the land surface to an explored depth of approximately 15.0 feet.
- Boring MPT-15-P01 (western central side of SWMU 28) encountered sand from the land surface to an explored depth of approximately 15.0 feet.
- Boring MPT-28-MW01S (located near the northwestern corner of SWMU 28) encountered a silty sand to the explored depth of 18.5 feet bls. A 2-footthick layer of clayey sand was encountered at a depth of approximately 4.0 feet bls.

Geologic cross sections provided in the NAVSTA Mayport GIR (see Figures 3-5 and 3-6, ABB-ES, 1995b) depict subsurface geologic conditions in the vicinity of SWMU 28.

Site Hydrogeology. The groundwater levels at the SWMU 28 monitoring well and for other RFI and RFA SV sites at NAVSTA Mayport were measured within a 7-hour period on August 30, 1994. The depth to the groundwater level at each monitoring well location was measured relative to a notch or mark on the north side of each monitoring well surveyed to the NGVD of 1929 (commonly referred to as msl). The depths to groundwater measured at each monitoring well adjacent to SWMU 28 are provided in Table 7-1 and Appendix G has groundwater data for other monitoring wells in the vicinity of the site. Also shown on the table are values for the water level measurements relative to the NGVD datum. The elevation data were used to prepare a map of the potentiometric surface (lines that represent altitudes of equal height above the reference datum) of the water table zone of the surficial aquifer. The potentiometric surface map of the water table is used to infer that groundwater flow is from higher to lower altitudes in a direction perpendicular to the equipotential lines. Based on the equipotential lines shown on Figure 7-2, the groundwater flow direction at SWMU 28 is generally toward the northwest.

Table 7-1
Summary of SWMU 28 Water Level Data

Groups I and II RFA SV Report
U. S. Naval Station
Mayport, Florida

	Elev.		ter Level 3/30/94	
Well/Piezometer	(msl)	Time (EST)	Depth (TOC)	Elev. (msl)
MPT-8-MW01S	10.19	12:03 p.m.	10.01	0.18
MPT-8-MW05S	13.00	10:07 a.m. ¹	8.67	4.33
MPT-10-P01	10.68	17:10 p.m.	8.71	1.97
MPT-15-P01	13.28	17:10 p.m.	9.45	3.83
MPT-28-MW01S	11.85	17:15 p.m.	9.93	1.92

Water level recorded by a programmable electronic monitor.

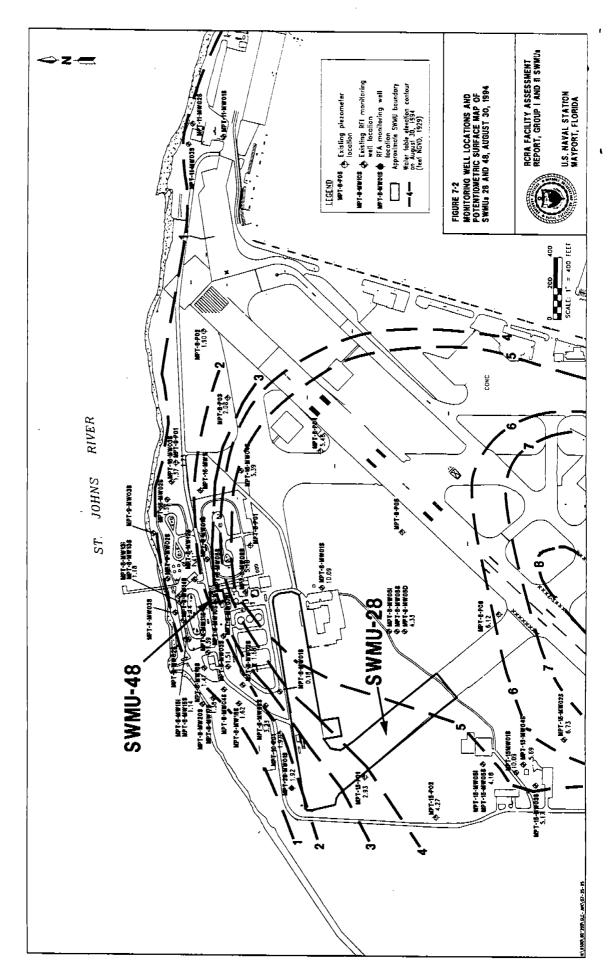
Notes: SWMU = solid waste management unit.

Elev. = elevation, National Geodetic Vertical Datum, 1929.

msi = mean sea level.

EST = Eastern Standard Time.

TOC = top of casing as datum.



7-6

The hydraulic position of the monitoring wells relative to SWMU 28 also is based on the equipotential lines shown on Figure 7-2. Monitoring well MPT-8-MW05S is located hydraulically upgradient of SWMU 28 (Table 7-2). Piezometer MPT-15-P01 is along a similar hydraulic equipotential line as the western part of SWMU 28. Monitoring wells MPT-8-MW01S, MPT-10-P01S, and MPT-28-MW01S are located on a hydraulic downgradient side of SWMU 28.

An approximation of the horizontal linear velocity of groundwater flow in the water table zone of the surficial aquifer in the vicinity of SWMU 28 is based on the potentiometric surface (hydraulic gradient) of the water table, estimates of radial hydraulic conductivities at monitoring well locations, and an estimate of the porosity (ratio of the volume of voids to total volume of the soil) of the saturated subsurface soil. The horizontal linear velocity was calculated from a modified form of Darcy's equation and represents the ratio of linear travel distance to travel time between two points (Freeze and Cherry, 1979). The horizontal linear velocity is expressed as $V_{\rm D}/N_{\rm e}$, where $V_{\rm D}$ is the Darcy velocity ($V_{\rm D}={\rm KI}$, where K is radial hydraulic conductivity and I is hydraulic gradient) and $N_{\rm e}$ is the effective porosity of the saturated geologic stratum. An effective porosity of 0.35 is used in calculations. (See Section 3.2.3, Physical Characteristics of Soil, in the NAVSTA Mayport GIR, ABB-ES, 1995b).

In-situ radial hydraulic conductivity values for monitoring wells in the vicinity of SWMU 28 are presented in Table 7-3. The range of in-situ radial hydraulic conductivity values in the vicinity of SWMU 28 are approximately 1.2 feet per day (MPT-8-MW05S) to 5.5 feet per day (MPT-15-P02). The hydraulic gradient is not uniform over SWMU 28 and a value of 0.006 ft/ft near the central part of SWMU 28 was used in the computation of the horizontal linear velocity. An approximation of the horizontal linear velocity of the groundwater ranges from approximately 0.02 to 0.09 foot per day.

Based on the values for horizontal linear velocity and assuming no dilution, dispersion, or retardation, a contaminant in the water table zone of the surficial aquifer may travel at rates of 7 to 34 feet per year (Table 7-3).

Surface and Subsurface Soil Analytical Results. Tables 7-4 and 7-5 summarize the validated analytical results for organic and inorganic target analytes, respectively, detected in surface soil samples collected at SWMU 28. Tables 7-6 and 7-7 summarize the validated analytical results for organic and inorganic target analytes detected in subsurface soil samples collected at SWMU 28. A summary of frequencies of detection, range of detection limits, range of detected concentrations, arithmetic mean, and bench mark comparison values are provided in Tables 7-8 and 7-9 for surface and subsurface soil samples, respectively. Bench mark comparison values consist of background screening values computed from station-wide surface and subsurface soil samples (ABB-ES, 1995b), the USEPA soil screening guidance values (USEPA, 1994), USEPA Region III RBC (USEPA, 1995) and the State of Florida cleanup goals (FDEP, 1995). The State of Florida cleanup goals consist of residential values for surface soil and industrial worker values for subsurface soil.

Each of the bench mark criteria provided in Tables 7-8 and 7-9 are human health based and represent the lower of either a noncarcinogenic HI where values of less than 1 represent a concentration where noncarcinogenic effects are not likely or a lifetime excess cancer risk of 10^{-6} , which represents a chance of 1 in

Table 7-2 Summary of Monitoring Well Installations Near SWMU 28

Groups I and II RFA SV Report U. S. Naval Station Mayport, Florida

SWMU Number	Monitoring Well No.	Hydraulic Position	Diameter (inches)	Total Depth (feet)	Screened Interva (ft bis)
8	MPT-8-MW01S	D Q	2	10	6 to 16
8	MPT-8-MW05S	U	2	10	5 to 15
10	MPT-10-P01	D	2	15	10 to 15
15	MPT-15-P01	s	2	15	10 to 15
28	MPT-28-MW01S	D	2	12.5	8 to 18

Notes: SWMU = solid waste management unit.

ft bis = feet below land surface.

D = Hydraulically downgradient from SWMU 28.

U = Hydraulically upgradient from SWMU 28.

S = Along a similar hydraulic gradient.

Table 7-3
Average Groundwater Velocities at SWMU 28

Groups I and II RFA SV Report U. S. Naval Station Mayport, Florida

Location	Estimated Effective Porosity	Radial Hydraulic Conductivity ² (feet per day)	Hydraulic Gradient¹ (feet per feet)	Estimated Linear Velocity (feet per day)	Estimated Linear Velocity (feet per year)
MPT-8-MW05S	0.35	1.22	0.006	0.02	7
MPT-8-MW06S	0.35	1.82	0.006	0.03	11
MPT-15-P02S	0.35	5.52	0.006	0.09	34

¹ Based on estimated synoptic water table elevations on August 30, 1994

² Estimated from in-situ conductivity measurements conducted during February 1993.

			lable 7-4	7-4		00 11977		
	Organic Ar	nalytes Detect	Organic Analytes Detected in Surface Soli Samples Collected at SWIND 26	off Samples (JONECTED AL S	W W W		
			Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	FA SV Report Station Jorida				
Analyte Batch No	M7675	M7675	M7675	M7675	M7675	M7675	M7675	M767
Cample Matrix:	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil
Sample Location	MPT-28-SS01	MPT-28-SS02	MPT-28-SS02	MPT-28-SS03	MPT-28-SS04	MPT-28-SS05	MPT-28-SS06	MPT-28-SS07
Sample County:	28SS00101	285500201	28SS00201Dup	285500301	28SS00401	28SS00501	285500601	28SS00701
Samole Date:	05-AUG-94	05-AUG-94	05-AUG-94	05-AUG-94	05-AUG-94	05-AUG-94	05-AUG-94	05-AUG-94
Sample Depth (ft bis):	0 to 1	0 to t	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
VOCs (µg/kg)								
Methylene chloride	1	ı	;	1	i	;	ţ	ŀ
Acetone	ı	!	ı	;	1	ï	1	Į
Xylenes (total)	;	ŀ	1	:	i	9	1	ŀ
SVOCe (µg/kg)								
4-Chloro-3-methylphenol	ŧ	ı	ı	1	ŧ	1	1	ŀ
Diethylphthalate	ï	1	43 J	:	:	ı	:	: 1
D⊱n-Butytphthalate	;	ı	41 J	1	ı	ı	;	70
Huoranthene	:	i	1	:	ı	ł	:	ı
Pyrene	ı	i	37 J	;	1	i	l	t
D. t. Jhonnydrhthalate	ŧ	ı	·	ı	ı	i	:	1
Data particular de la companya de la	1		ı	1	ı	ı	;	1
Senzo(a) ammacene	. 1	ı	ı	:	ı	l	i	1
	1	ı	:	1	i	i	:	1
		:	1	:	ı	1	1	1
Di-n-octylphthalate	ł	;	ı	ı	ŀ	1	1	;
Benzo(b)fluoranthene	:	ł			ı	:	;	i
Benzo(k)fluoranthene	:	;	ı	ŀ		i	1	ı
Benzo(a)pyrene	ŀ	ı	ì	1	1		;	į
Indeno(1,2,3-cd)pyrene	1	ı	;	:	ı		:	:
Dibenz(a,h)anthracene	i	I	ł	:	ŀ	ł	i	;
Benzo(g,h,i)perylene	1	1	:	1	:	ł	;	1
2-Chlorophenol	1	1		•	:	1		
See notes at end of table.								

Analyte Batch No.: Sample Matrix:								
Analyte Batch No.: Sample Matrix:			Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	s I and II RFA SV Heport U.S. Naval Station Mayport, Florida				
Sample Matrix:	M7684	M7684	M7684	M7684	M7684	M7684	M7684	M7684
Saftifule Manny.	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil
Topographic Control of Control	MPT-28-SS08	MPT-28-SS09	MPT-28-SS10	MPT-28-SS11	MPT-28-SS12	MPT-28-SS13	MPT-28-SS14	MPT-28-SS14
Sample Lucation.	285500801	285500901	28SS01001	28SS01101	28SS01201	285501301	28SS01401	28SS01401Dup
Sample Notinger.	10-AUG-94	05-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94
Sample Depth (ft bis):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0.0
VOCs (µg/kg)							;	١
Methylene chloride	i	1	i	:	1	ŧ	ł	;
Acetone	!	6 76	ì	:	ŧ	١ ;	:	, ;
Xylenes (total)	ı	1.J	1	1,1	;	٦,	:	I
SVOCs (µg/kg)							;	1
4-Chloro-3-methylphenol	1	ł	1	:	:	ı	l	
Diethylohthalate	1	i	;	ı	1	I	ı	ł
Disp. But dobt halate	1	;	;	:	ı	:	;	ł
	1	1	1	49 J	:	i	ł	:
	:	:	t	39 J	ŀ	ı	ı	ł
r yrono n. s. de ann dalasko jako	1	1	86 J	100 J	83 J	ŀ	:	:
Butylbenzylphinalate	!	1	;	46 J	1	t	1	ŧ
Benzo(a)antinacene	;	1	1	42 J	ŀ	ı	ı	;
Chrysene **: 49 7:1: The companies for the	:	1	;	95 J	4 ا	ı	:	ì
DIS(Z-Ethylitexyi)primare	1	;	i	40 J	ŧ	1	;	:
Di-n-octylphthalate	ŀ	;	I	50 J	ı	1	1	:
Benzo(b)#luorantrene	! !	ì	1	48 J	ı	ı	ì	;
Benzo(k)iluoranmene	ł		ŀ	50 J	ţ	ŀ	;	ŀ
Benzo(a)pyrene	ł	ı	;	48.3	;	ı	ţ	į
Indeno(1,2,3-cd)pyrene	;	:	I	. <u>-</u> .	ı	1	;	;
Dibenz(a,h)anthracene	:	ĭ	I		ŀ	t	1	1
Benzo(g,h,i)perylene	;	1	:	3	;	ŀ	:	1
2-Chlorophenol	;	;	1	 				

	Organic Ana	lytes Detecte	Table 7-4 (Continued) d in Surface Soil Sam	Table 7-4 (Continued) Organic Analytes Detected in Surface Soil Samples Collected at SWMU 28	Collected at	SWMU 28		•
			Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	RA SV Report Station Florida				,
	M7694	M7684	M7684	M7684	M7684	M7684	M7675	M7675
Analyte Batch No.:	Curface Coil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil
Sample Matrix:	MPT-28-SS15	MPT-28-SS16	MPT-28-SS17	MPT-28-SS18	MPT-28-SS19	MPT-28-SS20	MPT-28-SS21	MPT-28-SS21
Sample Location:	28.5501501	285501601	28SS01701	285501801	28SS01901	28SS02001	285502101	28SS02101Dup
Sample Nulliber.	06-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94	05-AUG-94	05-AUG-94
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 10 1
VOCe (µg/kg)							;	;
Methylene chloride	;	;	ı	;	ŀ	ı	1 :	:
Acetone	:	i	:	;	ı	ŀ	I	
Xylenes (total)	:	:	2 J	1	:	ï	ı	ı
SVOC (µg/kg)							;	ŀ
4-Chloro-3-methylphenol	1	1	ł	1	:	i		<u> </u>
Diethylphthalate	ı	•	t	ı	ı	i	1	1.03
Di-n-Butylphthalate	92 J	160 ل	1	i	ŀ	1	ı :) 1
Fluoranthene	1	;	i	1	:	;	; ;	:
Pyrene	;	:	ŀ	:	i	:	; ;	:
, Butylbenzylphthalate	;	ì	i	:	ı	1	!	:
Benzo(a)anthracene	i	ţ	ŀ	:	ı	ı	! !	:
Chrysene	1	1	1	t	1	1		44.1
bis (2-Ethylhexyl) phthalate	37 J	i	ı	:	ŀ	: 1) ; t
Di-n-octy/phthalate	;	1	:	1	t	ı	i	1
Benzo(b)fluoranthene	1	1	ı	ŀ	1	1 :	;	i
Benzo(k)fluoranthene	;	:	ı	1	t	: ;	ŀ	;
Benzo(a)pyrene	1	i	1	I	1	:	;	:
Indeno(1,2,3-cd)pyrene	1	:	1	i	!	1	;	1
Dibenz (a,h)anthracene	1	ı	1	ŀ	!!	ı	;	;
Benzo(g,h,l)perylene	i	:	ì	!		ı	:	ı
2-Chlorophenol	;	:	1	 - - -				
See notes at end of table.								

Analyte Batch No.:								
			Groups Land # U.S. Nav. Mayport	Groups I and # RFA SV Report U.S. Naval Station Mayport, Florida			·	
	M7675	M7675	M7675	M7675	M7675	M7675	M7675	M7675
	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil
	MPT-28-SS22	MPT-28-SS23	MPT-28-SS24	MPT-28-SS25	MPT-28-SS26	MPT-28-SS27	MPT-28-SS28	MPT-28-SS29
	285502201	285502301	28SS02401	285502501	28SS02601	28SS02701	28SS02801	28SS02901
	05-AUG-94	05-AUG-94	05-AUG-94	05-AUG-94	05-AUG-94	05-AUG-94	05-AUG-94	05-AUG-94
(# bls)	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
VOCs (µg/kg)								
Methylene chloride	:	1	ı	ì	;	1	;	1
Acetone	ı	1	;	ŀ	110 J	;	1	t
Xylenes (total)	t	ï	1	:	t	:	ı	:
SVOCs (µg/kg)								-
4-Chloro-3-methylpheno!	;	1	ı	!	;	1	:	5
Diethylphthalate	ŧ	1	I	1	1	;	1	Į
Di-n-Butyiphthalate	;	I	i	ı	1	i	;	:
Fluoranthene	;	1	;	1	:	1	:	- : (
Pyrene	ı	1	1	i	:	:	1	62 J
Sutvibenzyjphthalate	ı	1	ı	ì	1	ŧ	ı	:
Benzo(a)anthracene	1	ı	i	ı	ŀ	:	ţ	1
Chrysene	ı	1	ţ	ı	1	1	1	:
bis(2-Ethylhexyl)phthalate	1	1	1	ı	1	•	ŀ	ŀ
Di-n-octylphthalate	ŀ	ì	1	t	ı	t	t	:
Benzo(b)fluoranthene	:	ŀ	1	1	•	ŀ	ŧ	1
Benzo(k)fluoranthene	;	ŀ	1	I	1	ï	ŀ	ţ
Benzo(a)pyrene	t	1	ì	ì	;	ŀ		:
Indeno(1,2,3-cd)pyrene	t	i		ι	ı	ı	:	
Dibenz(a,h)anthracene	;	1	1	ŧ	l	ţ	ŀ	ł
Banzo(g,h,i)perylene	1	1	ŀ	ı	1	:	:	: g
2-Chlorophenol	1	:	:	:	1	•	;	8

Analyte Batch No.: M7675 Sample Matrix: Surface Soil Sample Location: MPT-28-SS30 Sample Number: 28SS33001 Sample Date: 05-AUG-94 Sample Depth (ft bls) 0 to 1	M7675 Surface So MPT-28-SS 28SS030010 05-AUG-9	Groups I and II RFA SV Report U.S. Naval Station	Report			
ols)		Mayport, Florida				
(s)		M7683	M7683	M7683	M7698	M7698
(S)		Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soll
bis)		MPT-28-SS31	MPT-28-SS32	MPT-28-SS33	MPT-28-SS34	MP1-28-5535
(\$)		28SS03101	28SS03201	285503301	28SS03401	285503501
(s)		06-AUG-94	06-AUG-94	06-AUG-94	10-AUG-94	10-AUG-94
VOCs (µg/kg)		0 to 1	0 to 1	0 to 1	010	1 01 0
abjected and analysiste					-	
Methyrerie chloride	•	;	i	1	4	:
Acetone	į	:	1	ŧ	:	ŀ
Xylenes (total)	ì	:	ı	1	;	ī
SVOCs (µg/kg)						
4-Chloro-3-methylphenol	1	ŀ	1	ì	:	ł
Diethylphthalate	1	:	i	ŧ	;	ŀ
Di-n-Butylphthalate	;	:	1	:	;	ŀ
Fluoranthene	:	:	ī	1	;	ł
Pyrene	;	;	į	1	:	!
Butylbenzylphthalate	1	ţ	:	ĭ	:	i
Benzo(a)anthracene	1	:	:	:	:	ŀ
Chrysene	i	ì	;	:	ı	}
bis(2-Ethylhexyt)phthalate	:	;	:	ı	i	:
Di-n-octylphthalate	:	1	:	I	:	!
Benzo(b)fluoranthene	t	ı	ī	:	ı	1
Benzo(k)fluoranthene	ı	•	1	1	:	; ;
Benzo(a)pyrene	1	:	ı	ŀ	ŀ	: :
Indeno(1,2,3-cd)pyrene	1	:	•	1	ŧ	;
Dibenz(a,h)anthracene	ľ	1	:	1	:	: 1
' Benzo(g,h,i)perylene	ı	1	ı	τ	! :	
2-Chlorophenol	1	-	:	:		
Notes: Suffix Dup = a duplicate sample to the corresponding environmental sample. SWMU = solid waste management system. ## bis = feet below land surface.	e to the corresponding en ent system.	ivironmental sample. - = analyte not detected. SVOCs = semivolatile org	nmental sample. - = analyte not detected. SVOCs = semivolatile organic compounds.	smpounds.		
VOCs = volatile organic compounds.	runds.	"J" = estimated value.	i varue.			

	Inorganic Analytes Detected in Surface Soil Samples Collected at SWMU 28	nalytes Detec		Son sampica				
_			Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	A SV Report Station Iorida				
	MZGZE	M7675	M7675	M7675	M7675	M7675	M7675	M7675
Analyte Batcii ivo	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil
Sample Marrix:	MPT-28-SS01	MPT-28-SS02	MPT-28-SS02	MPT-28-SS03	MPT-28-SS04	MPT-28-SS05	MPT-28-SS06	MPT-28-SS07
Sample Location	28SS00101	28SS00201	28SS00201DUP	285500301	28SS00401	28SS00501	28SS00601	28SS00701
Sample Mulliber.	05-AUG-94	05-AUG-94	05-AUG-94	05-AUG-94	05-AUG-94	05-AUG-94	05-AUG-94	05-AUG-94
Sample Depth (ft bls):	0 to 1.0	0 to 1.0	0 to 1.0	0 to 1.0	0.to 1.0	0 to 1.0	0 to 1.0	0 to 1.0
Inorganics (mg/kg)								
Antimony	1	ı	1	1	:	ï	1	:
Arsenic	0.74 J	0.85 J	1.6 J	1.2 J	0.61 با	1.6 J	0.79 J	1.5 J
	, S	4.1 J	6.2 J	7.1 J	4 J	7,4 J	4.3 J	17.4 J
Bandii.m	;	0.06 J	0.28 J	ს 80:0	ი.09 კ	0.13 J	0.05 J	0.14 J
Beryman	1.6	2 }	2.4	3.6	20	3.5	1.8 J	3.6
Circinatin	; :	:	ı	:	ī	:	:	0.59 J
Cobalt	I	;	ï	1.2 J	,	1.5 J	1	J. 5.4
Copper	1	! '	: 6) !	:	ł	1	:
Lead	5.1	¢,	7. 19.	ť	I		1	:
Mercury	i	0.12	;	ı	ı	i	:	
Nickel	:	;	;	•	:	·	i	I
Selenium	ı	ì	1	:		1	1	: :
Silver	ţ	i	ŀ	0.54 J	ì	ŧ	1	C 90:0
Ī	2.5 J	2.4 J	2.1 J	3.4 J	3.8 J	2.3 J	2.4 J	2.8 J
Vanadium	L.7.1	1.8.1	1.9 J	3.9 J	ر د	4.1 ل	1.7.1	3.2 J
Zinc	2.5 J	J.4.J	2.2 J	ı	i	1	·	i
Cyanide	;	;	1	,	:	:	;	:
See notes at end of table.								

	Inoroanic /	Table 7-5 (Continued) Inorganic Analytes Detected in Surface Soil Samples Collected at SWMU 28	Table 7-5 (Continued) ted in Surface Soil Sam	Continued)	s Collected at	SWMU 28		
	1		Groups I and II RFA SV Report U.S. Naval Station Maybort, Florida	RFA SV Report I Station Florida			,	
Applicate Description .	M7684	M7684	M7684	M7684	M7684	M7684	M7684	M7684
Analyte Dater No.:	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil
Semple Location	MPT-28-SS08	MPT-28-SS09	MPT-28-SS10	MPT-28-SS11	MPT-28-SS12	MPT-28-SS13	MPT-28-SS14	MPT-28-SS14
Samole Number	285500801	28SS00901	285501001	28SS01101	28SS01201	28SS01301	28SS01401	28SS01401DUP
Cample Date:	10-AUG-94	05-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94
Sample Depth (ft bis):	0 to 1.0	0 to 1.0	0 to 1.0	0 to 1.0	0 to 1.0	0 to 1.0	0 to 1.0	0 to 1.0
Inorganics (mg/kg)								
on the second	ſ	ì	1	;	:	;	1	;
Action 19	1,11	J. 65.0	0.71 J	1.1 J	0. 66 J	0.74 J	0.59 J	0.71 J
A Section 1	7 1 7	2.7.3	3.2 J	6.2 J	3.7 J	2.2 J	2.2 J	2.5 J
Callett	- 500	1, 90,0	1	0.08 J	U.07	0.06 J	0.04 J	0.06 J
Beryllium	5 F	- 0 -	1.61	6.	23	1.6 վ	1.6 J	1.2 J
Chromium	? <u>r</u>	- 22.0		ı	:	ı	:	ı
Cobalt	:	2 -	!	1.000	1	1.3 J	i	;
Copper	ı	- -	;	5			;	:
Lead	1.3	0.45 J	ŀ	1	:	1	;	:
Mercury	:		ı	ı	:	1	I	1
Nickel	1	1	1	ı	ŀ	:	!	· ·
Selenium	0.47 J	ł	1	;	;	:	ŀ	
Silver	ï	;	:	ı	•	:	:	: !
Tin	;	3.7 J	ì	3.2 J	2.2 J	1	3.6 J	2.3 J
Winiposo).	1.5.1	1.6 J	1.1 J	2.3 J	L 7.1	1.3 J	0.97 J	0.88 J
Valiacium	<u></u>	1	1.1 J	9.6	1.7.J	3.7 J	1.7 J	1.2 J
Cyanide	t	1	-	ı		1	;	1
See notes at end of table.								

No.:								
			Groups I and # RFA SV Report U.S. Navat Station Mayport, Florida	FA SV Report Station Florida	'			
	M7504	M7684	M7684	M7684	M7684	M7684	M7675	M7675
	Pourface Coil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil
	MPT.28.SS15	MPT-28-5516	MPT-28-SS17	MPT-28-SS18	MPT-28-SS19	MPT-28-SS20	MPT-28-SS21	MPT-28-SS21
	285501501	28SS01601	28SS01701	28SS01801	28SS01901	28SS02001	285502101	28SS02101DU P
	06.A11G-94	06-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94	05-AUG-94	05-AUG-94
Sample Date:	0 to 1.0 ft	0 to 1.0 ft	0 to 1.0 ft	0 to 1.0 ft	0 to 1.0 ft	0 to 1.0 ft	0 to 1.0 ft	0 to 1.0 ft
Inordanics (mg/kg)								
	;	1	L 68.	ł	ı	;	:	ı
Á	1. 50 0	+ 1.1	1.3 J	1.2 J	0.93 J	1.5 J	0.46 J	0.52 J
	. 9. E.	4.3 J	9.5 J	ب 9	4.3 J	6.4 J	2.9 J	5.4 J
	1.800	0.1 ر	0.13 J	0.12 J	ı	0.5 J	0.12 J	0.13 J
Geryllium	2.1 J	2 J	2.6	2.4	1.3 J	2.3	5.6	2.7
	•	1	i	1	1	ı	0.67 J	1
Cobait	: 1	1. 1.	1.2 J	:	1.5 J	ı	1	;
Copper	9	1	:	1	2.1	1	J E	1.2 J
Lead	2	ŧ	1	:	1	ı	1	;
Mercury	ı	1	;	ŧ	t	:	ı	1
Nickel	ł	!	!		D.29 J	ì	1	1
Selenium	ï	1	!	•		I	1	;
Silver	ı	1	1	- P	- -	1.40	50 10 10 10 10 10 10 10 10 10 10 10 10 10	₽. 4
Tin	4.4 J	2.6 √	2.4 J	2.7.3	7 ·	o -		1.76
Vanadium	1.8.1	t.7 J	2.5 J	2:2 J	1.3	2.2		ì
Znc	3.9 J	2)	2.3 J	2:2 J	2.9	E .	i.	ł
Ovanide	;	;	0.05 J	•		•	!	!

			Table 7-5 (Continued)	Continued)				
	Inorganic An	Inorganic Analytes Detected in Surface Soil Samples Collected at SWMU 28	ed in Surface	Soil Sample	s Collected	at SWMU 28		
			Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	s I and II RFA SV Report U.S. Naval Station Mayport, Florida				
A doctor	M7675	M7675	M7675	M7675	M7675	M7675	M7675	M7675
Sample Matrix:	Surface Soil	Surface Soil	Surface Soil	Surface Soll	Surface Soil	Surface Soll	Surface Soll	Surface Soil
Sample Location:	MPT-28-SS22	MPT-28-SS23	MPT-28-SS24	MPT-28-SS25	MPT-28-SS26	MPT-28-SS27	MPT-28-SS28	MPT-28- SS29
Comple Number	28SS02201	28SS02301	28SS02401	28SS02501	28SS02601	285502701	285502801	285502901
Sample Date:	05-AUG-94	05-AUG-94	05-AUG-94	05-AUG-94	05-AUG-94	05-AUG-94	05-AUG-94	05-AUG-94
Sample Depth (ft bis)	0 to 1.0	0 to 1.0	0 to 1.0	0 to 1.0	0 to 1.0	0 to 1.0	0 to 1.0	0 to 1.0
Inorganics (mg/kg)								
		;	t	:	:	ŀ	i	1
Administry	1, 88.0	0.82 J	1.1 J	0.53 J	0.49	0.56 J	Ր 29'0	0.75 J
Notice B	4))	4.6 J	7.1 J	6.5 J	3.5 J	4.8 J	5.8	4.2 J
Becellin	0.13	0.13 J	0.13 J	0.16 J	0.1 J	0.11 J	0.1 J	0.12 J
Chromium	3.1	1.9 J	3.9	2.1 J	2.4	2.6	3.1	2)
Cobalt	ţ	ŀ	0.95 J	0.59 J	1	0.58 J	0.61 J	:
Copper	;	1.2 J	2.2 J	0.87 J	ï		4.1 J	:
peal	U.87 J	;	0.83 J	0.51 J	0.92 J	1.5 J	ი.9 ე	<u>-</u> ئ
Mercury	i	ı	1	1	:		ı	1
Nickel	• ;	ı	t	:	:	1	i	;
Selenium	ŀ	ı	1	ı	1	:	;	ſ
Silver	ı	!	ŧ	0.48 J	:	t	0.61 ل	I
Ë	2.3 J	3.3 J	3.5 J	1,7,2	3.8 J	4.5 ل	3.3 J	-F
Vanadium	2.2 J	L 6.1	3.8 J	1.5 J	1.6.1	2.1 J	2.1 J	.5. J. 5.
Zinc	ı	1	ı	1	:	1	3.4 J	;
Cyanide	:	:	ı	1	:	:	;	
See notes at end of table.								

Inor	Table 7-5 (Continued) Inorganic Analytes Detected in Surface Soil Samples Collected at SWMU 28	Table Detected in S	Table 7-5 (Continued) d in Surface Soil Sam	led) samples Colle	ected at SWN	10 28	•
	·	Groups U	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	Report			
Applyte Ratch No	M7675	M7675	M7683	M7683	M7683	M7698	M7698
Analyte Dateir No	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil
Sample Postion	MPT-28-SS30	MPT-28-SS30	MPT-28-SS31	MPT-28-SS32	MPT-28-SS33	MPT-28-SS34	MPT-28-SS35
Sample Number	285503001	28SS03001DUP	285503101	285503201	285503301	28SS03401	285503501
Sample Date:	05-AUG-94	05-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94	10-AUG-94	10-AUG-94
Sample Depth (ft bis)	0 to 1.0	0 to 1.0	0 to 1.0	0 to 1.0	0 to 1.0	0 to 1.0	0 to 1.0
Inorganics (mg/kg)						·	
Antimony	;	ı	1	:	1	:	, I
Arsenic	0.77 J	0.6 J	0.55 J	3.2 J	Ր 6′0	1.2 J	1.2 J
Barium	5,4 J	6.2 J	L 6.7	5.3 J	8.9 J	6.6 J	7.5 J
Berullium	0.1 J	0.15 J	i	·	;	0.8 J	0.2 J
Chromium	2.4	٦ 9	2.7	2.2	2.5	3,5	LC?
Cobalt	1	1	ï	1	ı	1	Ţ
Conner	1.8 J	2.6 J	•	ŀ	ı	8.9	1
- ad - ad	1	1	1.7 J	2.4 J	5.6 J	.	3.2
Mercina	ł	L L	1	ŀ	1	;	
Nickel	;	:	ı	1	t	,	1.6 J
Selenium	i	1	1	:		i	•
Silver	1	1	0.48 J	ı	0.78	:	1
Ę	3.5 J	3.2 J	27.5 J	4.3 J	3 J	:	ı
Vanadium	1.8 J	J. 8.1	2.1 J	1.6 J	2.2 J	6.9	J.
Zinc	1	ı	17.2	:	1	16.7	₹C
Cyanide	:	1	1	1	ī	;	
Notes: SWMU = solid waste management unit. It bis = feet below land surface.	te management uni land surface.	¦ . ∥	analyte not detected = estimated value.				

	Organic Analytes Detected in Subsurface Soil Samples Collected at SWMU 28	es Detected In 3	Juna di lacci coli	dallipres colle			
	•	Gro	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	Report			
l aboratory Batch No.:	M7684	M7684	M7684	M7684	M7684	M7683	M7683
Sample Location:	MPT-28-BS01	MPT-28-BS05	MPT-28-BS10	MPT-28-BS17	MPT-28-BS22	MPT-28-BS031	MPT-28-BS031
Sample No.:	28BS00106	28BS00504	28BS01004	28BS01704	28BS02204	28BS03104D	28BS03104D
Sample Date:	06-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94
Sample Deoth (ft bis)	5 - 6	4 - 5	3 - 4	3 - 4	3 - 4	3.4	3-4
VOCs (8240) (µg/kg)							
Acetone	1	200 J	ი 88	29 J	1	!	•
Carbon disuffide	;	24	2 J	1	3 J	I	i
2-Butanone	:	21 J	ı	•	:	•	1
Xvlenes (total)	ı	i	7-	2)	í	•	i
SVOCe (8270) (µg/kg)							
Di-n-Butylphthalate	:	:	1	50 J	:	1	•
- Fluoranthene	;	ł	1	ı	280 ∫	1	
Pyrene	;	1	ı	1	280 J	1	
Butylbenzylphthalate	1	1	1	1	230 J	1	•
Benzo(a)anthracene	ı	:	1	•	210 J	ì	1
Chrysene	•	1	ı	1	270 J		1
Renzofbifuoranthene	1	i	;	•	310 J	i	;
Indeno(1,2,3-cd)pyrene	ı	i	ı	1	290 J	ī	1
Dibenz (a h)anthracene	ı	Ί		1	180 기	1	1
Benzo(g.h.i)perylene	1	1	1	!	200 J	,	:
Notes: SWMU = solid waste management unit. It bis = feet below land surface. VOCs = volatile organic compounds. µg/kg = micrograms per kilogram.	lanagement unit. I surface. compounds. er kilogram.	= analyte not detected. SVOCs = semivolatile org "ا" = estimated value.	= analyte not detected. SVOCs = semivolatile organic compounds. "J" = estimated value.	npounds.			

	morganic Analy						
		Gro	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	Report			
Laboratory Batch No.:	M7684 MPT-28-BS01	M7684 MPT-28-BS05	M7684 MPT-28-BS10	M7684 MPT-28-BS17	M7684 MPT-28-BS22	M7683 MPT-28-BS31	M7683 MPT-28-BS031
Sample No :	28BS00106	28BS00504	28BS01004	28BS01704	28BS02204	28BS03104	28BS03104D
Sample Date:	06-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94	06-AUG-94
Sample Depth (ft bis)	ა- ი	3 - 4	3.4	3-4	3-4	3.4	3-4
Inorganics (mg/kg)				;			;
Antimony	:	:	;	J 29.	;		- 67
Arsenic	J. 95.	B.3 J	1.6 J	L 68.	L 4	0.46. 	7 . I
Barium	2.1 J	26.9 J	3.9 J	5.9 J	8.4 J	D 6:60	5.2.0
Bervlium	ı	1.3 J	լ 51.	L 11.	.2 8 J	ŧ	1 ;
Cadmium	;	ı	;	1	;	1	<u> </u>
Chromium	1.3	38.7	4	2.3 J		 	
Cobalt	ţ	7.4 J	Ն 78.	1	1.3 J	ı	•
Connec	:	7.1 J	1.3 J	l	2)	ı	1
lead	;	11.3	1.7	1	6.4	ر <i>د</i>	1.3 J
Mercito	:	-	ï	1	.32	1	;
Nickel	I	10.6 J	1	:	2.2 J	1	1
Salanium	:	ı	.36 J	.39 ს	1	:	1
Tie	3.8 J	4.3 J	J.7 J	2.9 J	3.8 J	₽.4 U	4.6
Vanadium	J. 85.	38	3.3 J		8.5 J	1.5 J	L 4.1
Zinc	1.7 J	46	3.6 J	2 J	21.4		1
Ovanide	t	1	1		1	1	99
Notes: SWMU = solid waste management unit. It bls = feet below fand surface. VOCs = votatile organic compounds. mg/kg = milligrams per kilogram.	nanagement unit. id surface. ic compounds. er kilogram.	analyte not detected. SVOCs = semivolatile org "J" = estimated value.	= analyte not detected. SVOCs = semivolatite organic compounds. "J" = estimated value.	npounds.			

1,000,000 for an adverse carcinogenic effect for a continuous lifetime exposure. The concentrations listed for the USEPA Region III RBCs correspond to an HI of0.1, whereas the USEPA Superfund SSL and the State of Florida cleanup goals are based on an HI of 1. The Federal NCP final rule (40 CFR, Part 300) states that for carcinogens a lifetime excess cancer risk within the range of 10^{-4} (a chance of 1 in 10,000 for an adverse carcinogenic effect for a continuous lifetime exposure) to 10^{-6} represents concentrations that are considered by USEPA to be protective of human health.

<u>Surface Soils</u>. Target analytes detected in surface soil samples collected in Section 1 of SWMU 28 consisted of 2 VOCs (acetone and xylenes), 3 SVOCs (diethylphthalate, di-n-butylphthalate, and pyrene) and 13 inorganics (arsenic, barium, beryllium, chromium, cobalt, copper, lead, mercury, selenium, silver, tin, vanadium, and zinc).

Target analytes detected in surface soil samples collected in Section 2 of SWMU 28 consisted of 1 VOC (xylenes), 14 SVOCs (fluoranthene, pyrene, butylbenzylphthalate, benzo(a)anthracene, chrysene, bis(2-ethylhexyl)phthalate, di-n-octylphthalate, di-n-butylphthalate, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene) and 13 inorganics (antimony, arsenic, barium, beryllium, chromium, cobalt, copper, lead, selenium, tin, vanadium, zinc, and cyanide).

Target analytes detected in surface soil samples collected in Section 3 of SWMU 28 consisted of 1 VOC (acetone), 5 SVOCs (di-n-butylphthalate, bis(2-ethylhexyl)-phthalate, 4-chloro-3-methylphenol, pyrene, and 2-chlorophenol) and 14 inorganics (arsenic, barium, beryllium, chromium, cobalt, copper, lead, mercury, selenium, silver, tin, vanadium, zinc, and cyanide).

Target analytes detected in surface soil samples collected at the storage area behind the recycling center consisted of 1 VOC (methylene chloride) and 10 inorganics (arsenic, barium, beryllium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc).

Pesticides and PCBS were not detected in any of the surface soil samples from Sections 1, 2, or 3 of SWMU 28.

<u>Subsurface Soil</u>. Target analytes detected in the subsurface soil samples collected at Section 1 of SWMU 28 consisted of 3 VOCs (acetone, carbon disulfide, and 2-butanone) and 12 inorganics (arsenic, barium, beryllium, chromium, cobalt, copper, lead, mercury, nickel, tin, vanadium, and zinc). SVOCs, pesticides and PCBs were not detected in subsurface soil samples collected at Section 1.

Target analytes detected in subsurface soil samples collected at Section 2 of SWMU 28 consisted of 3 VOCs (acetone, carbon disulfide, and xylenes), 1 SVOC (di-n-butylphthalate), and 12 inorganics (antimony, arsenic, barium, beryllium, chromium, cobalt, copper, lead, selenium, tin, vanadium, and zinc). Pesticides and PCBs were not detected in subsurface soil samples collected at Section 2.

Target analytes detected in subsurface soil samples collected in Section 3 of SWMU 28 consisted of 1 VOC (carbon disulfide), 9 SVOCs (fluoranthene, pyrene, butylbenzylphthalate, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene), and 14 inorganics (arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, tin, vanadium, zinc, and cyanide). Pesticides and PCBs were not detected in the soil samples collected at Section 3.

Charten Links Frequency Pagings of the page of t			Che	Chemicals of Pote	Table 7-8 s of Potential Concern in Surface Soil at SWMU 28	r-8 in Surface 9	Soil at SWMU	28			
Frequency Freq					Groups I and II RF U.S. Naval S Mayport, FI	A SV Report Station orida					
2,35 10 to 12 97 to 110 104 ND 780,000 7,800,000 130,000 Nd 85,006 89 ND 16,000,000 160,000 1,400 ND 1,35 5 to 6 1 to 6 2.4 ND 16,000,000 160,000 1,000,000 1,400 ND 1,35 340 to 3,600 55 55 ND ND 880 90 1,400 ND 1,600,000 1,400 ND 1,400 ND 1,400 ND 1,600,000 1,400 ND 1,400 ND 1,400 ND 1,600,000 1,400 ND 1,400 ND 1,400 ND 1,600,000 1,400 ND 1,400 ND 1,600,000 1,400 ND 1,400 ND 1,600,000 1,400 ND 1,400 ND 1,600,000 1,400 ND 1,400 ND 1,600,000 1,400 ND 1,400 ND 1,600,000 1,400 ND 1,400 ND 1,600,000 1,400 ND 1,400 ND 1,400 ND 1,600,000 1,400 ND 1,400 ND 1,400 ND 1,600,000 1,400 ND 1,400 ND 1,400 ND 1,600,000 1,400 ND 1,400 ND 1,400 ND 1,600,000 1,400 ND 1,4	Analyte	Frequency of Detection ¹	Range of Reporting Limits	Range of Detected Concentrations (*)²	Mean of Detected Concentrations ³	Background Screening Vatue [‡]	Risk Based Screening Concentration ⁵	Superfund Proposed Soil Screening Levels	Cleanup Goals for the Military Sites in Florida ⁷	Analyte CPC? (Yes/No)	Reason
2/35 10 to 12 97 to 110 104 ND 780,000 780,000 130,000 sp/35 5 to 6 4 4 ND 65,000 160,000,000 16	Volatiles (µg/kg)					!	9	000	000	Š	0 0
1/35 5 to 6 4	Acetone	2/35	10 to 12		104	O.	000'087	000,000,7	000,000	2	
cg) 5 5 6 6 1 to 6 2.4 ND 16,000,000 NA 2.20 NA henol 1/35 340 to 3,600 89 89 ND 39,000 NA NA NA NA YA YA </td <td>Methylene chloride</td> <td>1/35</td> <td>5 to 6</td> <td>4</td> <td>4</td> <td>2</td> <td>85,000</td> <td>85,000</td> <td>9,300</td> <td>2 :</td> <td>5 C</td>	Methylene chloride	1/35	5 to 6	4	4	2	85,000	85,000	9,300	2 :	5 C
1/35 340 to 3,600 89 ND 39,000 NA NA 220 1/35 340 to 3,600 55 55 ND NA NA NA NA 1/35 340 to 3,600 46 46 ND 880 900 1,400 1/35 340 to 3,600 50 50 ND 880 900 1,400 1/35 340 to 3,600 50 50 ND 880 900 1,400 1/35 340 to 3,600 48 49 ND 1,600,000 1,400 1,400 1/35 340 to 3,600 48 49 ND 1,600,000 1,400 1,400 1/35 340 to 3,600 42 42 ND 1,600,000 1,600,000 1,500,000 5/35 340 to 3,600 40 40 ND 1,600,000 1,600,000 1,600,000 1,600,000 1/35 340 to 3,600 40 40 ND 1,600,000 1,600,000 1,6	Xylenes (total)	5/32	5 to 6	1 to 6	2.4	Q	16,000,000	160,000,000	6,400,000	2	N T
1/35 340 to 3,600 89 ND 39,000 NA 220 1/35 340 to 3,600 55 55 ND NA NA NA NA 1/35 340 to 3,600 46 46 ND 880 900 1,400 NA 1/35 340 to 3,600 50 50 ND 880 900 1,400 NA 1,400	Semivolatiles (µg/kg)							:		1	ď
tylphenol 1/35 340 to 3,600 55 55 ND NA NA NA cene 1/35 340 to 3,600 46 ND 880 900 1,400 NA state 1/35 340 to 3,600 50 50 ND 880 900 1,400 NA ylene 1/35 340 to 3,600 50 50 ND NB 880 900 1,400 NA ylene 1/35 340 to 3,600 50 50 ND NB 880 900 1,400 NA ylene 1/35 340 to 3,600 48 48 ND 1,600,000 1,400 1,400 halate 3/35 340 to 3,600 40 40 ND 1,600,000 1,400 1,400 halate 1/35 340 to 3,600 40 40 ND 1,600,000 1,600,000 1,400 halate 1/35 340 to 3,600 40 40 ND 1,600,0	2-Chlorophenol	1/35	340 to 3,600	83	68	ON N	39,000	∀ Z	220	2 ;	ว ดั
1/35 340 to 3,600 46 46 ND 880 900 1,400 1/35 340 to 3,600 50 50 ND 88 90 1,400 1/35 340 to 3,600 50 50 ND 880 900 1,400 1/35 340 to 3,600 48 48 ND 1,600,000 14,000 1,400 1/35 340 to 3,600 48 48 ND 1,600,000 14,000 1,400 1/35 340 to 3,600 42 42 ND 1,600,000 15,000,000 14,000 5/35 340 to 3,600 75 to 203.5* 128 ND 7,800,000 7,800,000 1,500,000 1/35 340 to 3,600 40 40 ND 1,600,000 1,500,000 1,600,000 1,500,000 1,400 1/35 340 to 3,600 49 49 ND 83,000 3,100,000 1,400 1,400 1/35 340 to 3,600 48 49 ND	4.Chloro-3-methylnhenol	1/35	340 to 3,600	55	55	문	NA N	A'N	Y Y	√	1
1/35 340 to 3,600 50 50 ND 88 90 140 ND 1/35 340 to 3,600 50 50 50 ND NB NA NA 1,400 P 1/35 340 to 3,600 48 48 ND 1,600,000 14,000 P 1/35 340 to 3,600 83 to 100 89.7 ND 1,600,000 14,000 P 1/35 340 to 3,600 42 42 ND 7,800,000 15,000,000 P 5/35 340 to 3,600 75 to 203.5* 128 ND 7,800,000 7,500,000 1/35 340 to 3,600 40 ND 6,300,000 1,600,000 1,400 1/35 340 to 3,600 49 49 ND 6,300,000 51,000,000 1/35 340 to 3,600 48 49 ND 6,300,000 51,000,000 1/35 340 to 3,600 48 48 ND 2,300,000 2,300,000 3	Hepro (a) anthracene	1/35	340 to 3,600	46	46	2	880	006	1,400	2	လ် ရ
1/35 340 to 3,600 50 50 ND 680 900 1,400 N 1/35 340 to 3,600 50 50 ND NB NA 14,000	Denzo(a)curene	1/35	340 to 3,600	92	50	2	88	06	140	2	ο.
1/35 340 to 3,600 50 50 ND NA NA 14,000 1/35 340 to 3,600 48 49 ND 1,600,000 15,000,000 14,000 3/35 340 to 3,600 42 42 ND 1,600,000 15,000,000 140,000 1/35 340 to 3,600 75 to 203.5* 128 ND 780,000 7,800,000 1,500,000 1/35 340 to 3,600 40 40 ND 160,000 1,600,000 1,500,000 1/35 340 to 3,600 111.5* 112 ND 6,300,000 51,000,000 1/35 340 to 3,600 49 ND 310,000 2,800,000 1,400 1/35 340 to 3,600 49 ND 310,000 2,800,000 2,200,000 1/35 340 to 3,600 39 to 108.5* 69.8 ND 230,000 2,200,000 3/35 340 to 3,600 37 to 199.5* 93.1 ND 46,000 2,300,000 2,200,000	Delizo(a)pyrene	SS/-	340 to 3 600	20	20	2	880	006	1,400	S S	လ ရ ပ
1/35 340 to 3,600 48 48 ND 1,600,000 16,000,000 14,000 1/35 340 to 3,600 83 to 100 89.7 ND 1,600,000 16,000,000 15,000,000 15,000,000 17,35 340 to 3,600 75 to 203.5* 1/35 340 to 3,600 75 to 203.5* 128 ND 780,000 7,800,000 7,800,000 1,500,000 1,500,000 1,350,000 1,350,000 1,1.5* 112 ND 6,300,000 63,000,000 7,800,000 1,400,000 1,350,000 1,350,000 1,350,000 1,350,000 1,350,000 1,350,000 1,350,000 1,350,000 1,350,000 1,350,000 1,350,000 1,350,000 1,350,000 1,350,000 1,400,	Benzo (b) fluoranthene	S .	240 to 2 600	: £	S	Q	N A	Ą	14,000	ş	တ
1/35 340 to 3,600 48 49 70 1 100 100 10 1000 10 1000 10 10 1000 10 1	Benzo(g,h,i)perylene	1/35	340 to 3,600	9 9		ç	8.800	000'6	14,000	운	S, P, G
3/35 340 to 3,600 83 to 100 89.7 ND 1,000,000 140,000 140,000 1/35 340 to 3,600 75 to 203.5* 128 ND 780,000 7,800,000 7,500,000 140,000 1/35 340 to 3,600 75 to 203.5* 128 ND 88,000 1,600,000 1,500,000 1,500,000 1,350 340 to 3,600 49 49 ND 310,000 2,300,000 2,800,000 1,400 1,35 340 to 3,600 37 to 199.5* 93.1 ND 46,000 46,000 46,000 46,000 46,000 46,000 46,000 46,000 46,000 1,400	Benzo(k)fluoranthene	1/32	340 to 3,600	2	D (2 5	1 600 000	16 000 000	15,000,000	2	S, P, G
phthalate 5/35 340 to 3,600 42 42 ND 780,000 7,800,000 7,500,000 phthalate 1/35 340 to 3,600 75 to 203.5* 128 ND 780,000 7,500,000 7,500,000 phthalate 1/35 340 to 3,600 52 52 ND 6,300,000 51,000,000 140 thalate 1/35 340 to 3,600 49 49 ND 310,000 2,800,000 2,800,000 2,3-cd]pyrene 1/35 340 to 3,600 48 48 ND 880 900 1,400 2,3-cd]pyrene 1/35 340 to 3,600 37 to 199.5* 69.8 ND 46,000 2,300,000 2,200,000 3/35 340 to 3,600 37 to 199.5* 93.1 ND 46,000 2,300,000 45,000	Butylbenzylphthalate	3/32	340 to 3,600	83 to 100	£.69	€ 5	000,000,1	000'000'01	140 000	2	S P D
5/35 340 to 3,600 75 to 203.5* 128 ND 780,000 7,500,000 7,500,000 1/35 340 to 3,600 52 52 ND 88 90 140 1/35 340 to 3,600 52 52 ND 6,300,000 51,000,000 1/35 340 to 3,600 49 49 ND 310,000 3,100,000 2,800,000 1/35 340 to 3,600 37 to 199.5* 69.8 ND 230,000 2,300,000 2,200,000 1thalate 4/35 340 to 3,600 37 to 199.5* 93.1 ND 46,000 46,000 45,000	Chrysene	1/35	340 to 3,600	45	42	⊋ !	88,000	000'000	7 500 000	Ž	
1/35 340 to 3,600 40 40 ND 160,000 1,600,000 1,500,000 ene 1/35 340 to 3,600 52 52 ND 88 90 140 1/35 340 to 3,600 49 49 ND 310,000 51,000,000 2,800,000 1/35 340 to 3,600 48 48 ND 880 900 1,400 3/35 340 to 3,600 37 to 199.5* 93.1 ND 46,000 46,000 45,000	Di-n-butylphthalate	5/32	340 to 3,600		128	2	780,000	000,008,	1,300,000	2	
ene 1/35 340 to 3,600 52 52 ND 88 90 140 1/35 340 to 3,600 111.5* 112 ND 6,300,000 63,000,000 51,000,000 1/35 340 to 3,600 49 49 ND 310,000 3,100,000 2,800,000 1/35 340 to 3,600 39 to 108.5* 69.8 ND 230,000 2,200,000 1/400 4/35 340 to 3,600 37 to 199.5* 93.1 ND 46,000 46,000 45,000	Di-n-octylphthalate	1/35	340 to 3,600	40	40	2	160,000	1,600,000	1,500,000	2 2	. •
1/35 340 to 3,600 111.5* 112 ND 6,300,000 51,000,000 51,000,000 1/35 340 to 3,600 49 49 ND 310,000 3,100,000 2,800,000 1/35 340 to 3,600 39 to 108.5* 69.8 ND 230,000 2,300,000 2,200,000 late 4/35 340 to 3,600 37 to 199.5* 93.1 ND 46,000 46,000 45,000	Dibenz(a,h)anthracene	1/35	340 to 3,600	25	52	2	8	3	040	2 4	
1/35 340 to 3,600 49 49 ND 310,000 3,100,000 2,800,000 pyrene 1/35 340 to 3,600 48 48 ND 880 900 1,400 3/35 340 to 3,600 39 to 108.5* 69.8 ND 230,000 2,300,000 2,200,000 Iphthalate 4/35 340 to 3,600 37 to 199.5* 93.1 ND 46,000 46,000 45,000	Diethylohthalate	1/35	340 to 3,600	111.5*	112	2	6,300,000	63,000,000	51,000,000	§ :	ב ב
d)pyrene 1/35 340 to 3,600 48 48 ND 880 900 1,400 1,400 3/35 340 to 3,600 37 to 199.5* 69.8 ND 230,000 2,300,000 2,200,000 3/35 340 to 3,600 37 to 199.5* 93.1 ND 46,000 46,000 45,000	Granthene	1/35	340 to 3,600	49	49	Q	310,000	3,100,000	2,800,000	2	<u>.</u>
3/35 340 to 3,600 37 to 199.5* 69.8 ND 230,000 2,300,000 2,200,000 45,000 44,35 340 to 3,600 37 to 199.5* 93.1 ND 46,000 46,000 45,000		1/35	340 to 3.600	48	48	QN ,	680	006	1,400	2	Δ.
3/35 340 to 3,600 37 to 199.5* 93.1 ND 46,000 46,000 45,000	Indeno(1,2,3-ca)pyrene	26/0	340 to 3 600		8.69	2	230,000	2,300,000	2,200,000	2	S, P, G
4/35 340 10 5,000	Pyrene		340 to 2 600		93.1	S	46,000	46,000	45,000	온	S, P, G
	bis(2-Ethylhexyl)phthalat		000'6 01 046								

		Che	micals of Pote	Table 7-8 (Continued) Chemicals of Potential Concern in Surface Soil at SWMU 28	ntinued) in Surface 9	Soil at SWMU	28			
				Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	A SV Report tation orida					
Analyte	Frequency of Detection ¹	Range of Reporting Limits	Range of Detected Concentrations	Mean of Detected Concentrations ³	Background Screening Value	Risk Based Screening Concentration ⁵	Superfund Proposed Soil Screening Leveis [®]	Cleanup Goals for the Military Sites in Florida	Analyte CPC? (Yes/No)	Reason
Pesticides/PCBs (µg/kg)										
No analytes detected										
Inorganics (mg/kg)										1
Antimony	1/35	1.04 to 1.12	0.89	0.89	Q	3.1	31	56	2	S, O,
Arsenic	35/35	2.075 to 2.25	0.49* to 3.2	0.97	2	°0.37	9.0	0.7	Yes	
Barin	35/35	41.515 to 44.99	2.2 to 17.4	5.6	5.6	550	5,500	5,000	욷	S, P, G
Bendlium	29/35	1,04 to 1.12	0.05 to 0.2	0,1	0.16	0.15	0.1	0.1	Yes	
Chamin	35/35	2.075 to 2.25	1,2 to 5	2.4	5.6	6E ₀₁	390	10150	운	S, P, G
Cabali	R/35	10.375 to 11.25	0.58 to 3.0125*	-	2	470	A A	4,700	욷	ග ග
Codall	5,700 16,735	5 19 to 5.62	0.87 to 6.8	2.1	2.2	290	NA V	2,900	ş	g Š
laddo	2/35	79:0 or 69:0	0.45 to 6.1	1.	2	,,400	11400	200	2	S, P, G
Lead	1/35	0.04 to 0.04	*20.0	0.07	2	2.3	23	23	운	S, P, G
Mercury	1/35	8.305 to 9	1.6	1.6	9	160	1,600	1,500	£	S, P, G
Salanium	2/35	1.04 to 1.12	0.29 to 0.47	0.38	9	38	390	390	8	S, P, G
	6/35	2.075 to 2.25	0.48 to 0.78	0.58	2	39	390	380	Š	S, P, G
	30/35	10.375 to 11.25	2.2 to 27.5	6 .	5.4	4,700	¥	44,000	Š	S S
Vanadium	35/35	10.375 to 11.25	0.925* to 6	2.2	4	55	550	480	S	S, P, G
Zinc	17/35	4.15 to 4.5	1.1 to 17.2	5.2	2.6	2,300	23,000	23,000	Š	လ ရ (၁
Cyanide	1/35	2.075 to 2.25	0.05	0.05	S	160	1,600	1,600	2	S, P, G
See notes on next page.										

Chemicals of Potential Concern in Surface Soil at SWMU 28 Table 7-8 (Continued)

Groups I and II RFA SV Report U.S. Naval Station

				Mayport, Florida	Orion					
Analyte	Frequency of Detection ¹	Range of Reporting Limits	Range of Detected Concentrations	Mean of Detected Concentrations ³	Background Screening Value*	Risk Based Screening Concentration ⁵	Superfund Cleanup Proposed Soil Goals for the Screening Military Sites Levels* in Florida?	Cleanup Goals for the Military Sites in Florida?	Analyte CPC? (Yes/No)	Reason®
								on paparior soft	(100)	

Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected values). Value indicated by asterisk is the average of a sample and its duplicate. For duplicate samples having one nondetected values, 1/2 the contract required quantitation limit or

The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected including values qualified with a "J"; it does not include those samples where the analyte was not detected ("U" or "UJ" qualitiers) and rejected ("R" qualitier). contract required detection limit (CRDL) is used as a surrogate.

The background screening value is twice the average of detected concentrations for inorganic analytes in background samples. Organic values are one times the mean of detected concentration. Organic values are included for comparison purposes only.

EPA/903/R-93-001) was used for screening. Actual values are taken from the USEPA Region III RBC tables dated February 1995, and are based on a cancer risk of 10° and an concentrations (RBC) for residential surface soil exposure per January 1993 guidance (Selecting Exposure Routes and Contaminants of Concern by Risk-Based Screening. For all chemicals except the essential nutrients (calcium, iron, magnesium, potassium, and sodium), U.S. Environmental Protection Agency (USEPA) Region III risk based adjusted hazard quotient of 0.1. For the essential nutrients, screening values were derived based on recommended daily allowances (RDAs).

Source: USEPA. December, 1994. Soit Screening Guidance, Review Draft, USEPA, Office of Solid Waste and Emergency Response, Washington, D.C., EPA/540/R-94/101. Values are taken from the Florida Department of Environmental Protection memorandum, Cleanup Goals for Military Sites in Florida, dated April 5, 1995. The values are for the Values are taken from the Florida Department of Environmental Protection memorandum, Cleanup Goals for Military Sites in Florida, dated April 5, 1995. The values are for the

aggregate resident based on a cancer risk of 10° and the child resident based on a hazard quotient of 1.

Analytes were included or excluded from the risk assessment for the following reasons:

C = the analyte is a member of a chemical class that contains other chemicals of potential concern (CPCs) (i.e., carcinogenic polynuclear aromatic hydrocarbons [PAHs]). S = the maximum detected concentration did not exceed the screening concentration and will not be considered further.

G = the maximum detected concentration did not exceed the Florida cleanup goals and will not be considered further.

B = the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at background locations.

F = the frequency of detection was less than 5 percent and professional judgment was used to exclude analyte from further study.

P = the maximum detected concentration did not exceed the USEPA proposed soil screening levels (SSLs), 9355.4-14FS, dated December 1994. M = the analyte was detected at less than 5 percent and is a CPC in more than one media.

The value is based on arsenic as a carcinogen.

" USEPA Office of Solid Waste and Emergency Response (OSWER) Directive No. 9355.4-12 revised interim recommended soil cleanup for Comprehensive Environmental Response, 10 The value is based on chromium hexavalent form.

Compensation, and Liability Act (CERCLA) and Resource Conservation and Recovery Act (RCRA) sites.

The average of a sample and its duplicate is used for all table calculations. Notes:

Sample locations include:

Background sample locations include: MPT-B-SS01; MPT-B-SS02; MPT-B-SS03; MPT-B-SS04; MPT-B-SS05; MPT-B-SS06 PCBs = polychlorinated biphenyls. NA = not available. Duplicate background sample locations include: MPT-B-SS01Dup SWMU = solid waste management unit.

mg/kg = milligrams per kilograms.

ND = not detected in any background samples. CPC = chemicals of potential concern. µg/kg = micrograms per kilograms.

		Cher	Table 7-9 Chemicals of Potential Concern in Subsurface Soil at SWMU 28	Table 7-9 itial Concern in S	7-9 n Subsurfac	e Soil at SWI	MU 28			
				Groups I and # RFA SV Report U.S. Naval Station Mayport, Florida	FA SV Report Station Iorida					
Analyte	Frequency of Detection	Range of Reporting Limits	Range of Detected Concentrations ²	Mean of Detected Concentrations ³	Background Screening Value	Risk Based Screening Concentration ⁵	Superfund Proposed Soil Screening Levels ⁶	Cleanup Goals for the Military Sites In Florida?	Analyte CPC? (Yes/No)	Reason
Voletiles (va/ka)							I			
2-Butanone	1/6	11 to 21	21	21	S	4,700,000	N	17,000,000	ž	S, G
Acetone	3/6	11 to 21	59 to 200	116	<u>Q</u>	780,000	7,800,000	000'068	8	S, P, G
Carbon disulfide	3/6	5 to 11	2 to 24	7.6	2	780,000	7,800,000	18,000	2	S, P, G
Xylenes (total)	5/6	5 to 11	1 to 2	1.5	QV	16,000,000	160,000,000	44,000,000	2	S, P, G
Semivolatiles (µg/kg)										
Benzo(a)anthracene	1/6	350 to 1,700	210	210	9	880	006	4,900	Yes	ပ
Benzo(b)fluoranthene	1/6	350 to 1,700	310	310	9	880	006	4,900	Yes	ပ
 Benzo(g,h,i)perylene	1/6	350 to 1,700	200	200	Q	A A	Y Y	20,000	2	o
Butylbenzylphthalate	1/6	350 to 1,700	230	230	2	1,600,000	16,000,000	300,000,000	2	ල ර
Chrysene	1/6	350 to 1,700	270	270	9	88,000	88,000	490,000	Yes	ပ
Di-n-butylphthalate	1/6	350 to 1,700	20	S	오	780,000	7,800,000	150,000,000	2	လ ၅ (၁
Dibenz(a,h)anthracene	1/6	350 to 1,700	180	180	Q	88	6	200	Υes	ပ
Fluoranthene	1/6	350 to 1,700	280	280	9	310,000	3,100,000	44,000,000	<u>8</u>	S, P, G
Indeno(1.2,3-cd)pyrene	1/6	350 to 1,700	290	290	2	880	006	2,000	Yes	ပ
Pyrene	1/6	350 to 1,700	280	280	2	230,000	2,300,000	37,000,000	2	S, P, G
Pesticides/PCBs (µg/kg)	-									
No Analytes detected										
See notes at end of table.	Je.									

					mined					
		Chemical	icals of Poten	s of Potential Concern in Subsurface Soil at SWMU 28	Subsurface	Soil at SWM	J 28			
				Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	A SV Report tation orida			٠.		
Frequency of Oterction	rion1	Range of Reporting Limits	Range of Detected Concentrations ²	Mean of Detected Concentrations ³	Background Screening Value ⁴	Risk Based Screening Concentration ⁵	Superfund Proposed Soil Screening Levels*	Cleanup Goals for the Military Sites in Florida	Analyte CPC? (Yes/No)	Reason
Inorganics (mg/kg)									,	(
Antimony 1/6	စ္	1.06 to 1.89	0.67	0.67	Š	3.1	9	210	2	S, P,
	ç	2.12 to 3.78	0,385* to 8.3	2.6	6:0	°0.37	0.4	ဗ	Yes	
	ي پر	42.42 to 75.61	2.1 to 26.9	o	7.2	550	5,500	74,000	2	S, P, G
{	<u>(</u>	1.06 to 1.89	0.11 to 1.3	0.46	0.14	0.15	0.1	0.2	Yes	
	ي پر	1.06 to 1.89	0.82*	0.82	2	3.9	33	900	Š	S, P, G
	<u>, </u>	9 12 to 3 78	1 to 38.7	6.0	3.4	1039	330	10220	운	S, P, G
	ر ب	10.6 to 18.9	0.87 to 7.4	3.2	1.04	470	¥	110,000	2	S _. G
	ر پر	5.3 to 9.45		3.5	3.6	290	A A	72,000	Š	ა ე
5	۷ پر	0.64 to 1.13	1.65* to 11.3	6.	2.8	"400	400	1,000	8	S, P, G
	<u>, (</u>	0.04 to 0.08	0.32 to 1	0.66	90.0	2.3	ឌ	480	<u>8</u>	S, P, G
Mercury 2/6	2/2	8.48 to 15.12	2.2 to 10.6	6.4	Q	160	1,600	11,000	Š	S, P, G
į	o /2 0 /2	1.06 to 1.89		0.38	2	33	330	006'6	8	S, P, G
	י ני ע ני	10.6 to 18.9	2.9 to 4.5*	3.8	5.4	4,700	A A	000'099	Ş	₽
	0/0	10.6 to 18.9	0.85 to 38	6	3.2	55	220	4,800	Š	S, P, G
	9/9	4 24 to 7.56	1.7 to 46	14.9	4.8	2,300	23,000	550,000	운	S, P, G
Zalic Oyonide	1/6	2.12 to 3.78	0.57*	0.57	0.66	160	1600	40,000	2	a
is on next page.										

Chemicals of Potential Concern in Subsurface Soil at SWMU 28 Table 7-9 (Continued)

Groups I and II RFA SV Report U.S. Naval Station

				Maypor, Tolica	PIOL CA					
								i		
Analyte	Frequency of Detection'	Range of Reporting Limits	Range of Detected Concentrations ²	Mean of Detected Concentrations ³	Background Screening Value	Risk Based Screening Concentration ⁵	Superfund Cleanup Proposed Soil Goals for the Screening Military Sites Levels* in Florida*	Cleanup Goals for the Military Sites In Florida?	Analyte CPC? (Yes/No)	Reason

2 Value indicated by asterisk is the average of a sample and its duplicate. For duplicate samples having one nondetected values, 1/2 the contract required quantitation limit or Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected values).

The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected including values qualified with a "J"; It does not include those contract required detection limit (CRDL) is used as a surrogate.

The background screening value is twice the average of detected concentrations for inorganic analytes in background samples. Organic values are one times the mean of samples where the analyte was not detected ("U" or "UJ" qualifiers) and rejected ("R" qualifier)

EPA/903/R-93-001) was used for screening. Actual values are taken from the USEPA Region III RBC tables dated February 1995, and are based on a cancer risk of 10° and an concentrations (RBC) for residential surface soil exposure per January 1993 guidance (Selecting Exposure Routes and Contaminants of Concern by Risk-Based Screening, For all chemicals except the essential nutrients (calcium, iron, magnesium, potassium, and sodium), U.S. Environmental Protection Agency (USEPA) Region III risk based adjusted hazard quotient of 0.1. For the essential nutrients, screening values were derived based on recommended daily allowances (RDAs). detected concentration. Organic values are included for comparison purposes only.

Values are taken from the Florida Department of Environmental Protection memorandum, Cleanup Goals for Military Sites in Florida, dated April 5, 1995. The values are for the Source: USEPA. December, 1994. Soil Screening Guidance, Review Draft, USEPA, Office of Solid Waste and Emergency Response, Washington, D.C., EPA/540/R-94/101. Industrial Worker based on a cancer risk of 10° and the general worker based on a hazard quotient of 1.

Analytes were included or excluded from the risk assessment for the following reasons:

= the maximum detected concentration did not exceed the screening concentration and will not be considered further.

= the maximum detected concentration did not exceed the Florida cleanup goals and will not be considered further.

= the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at background locations.

= the frequency of detection was less than 5 percent and professional judgment was used to exclude analyte from further study. 囟

the analyte is a member of a chemical class that contains other chemicals of potential concern (CPCs) (i.e., carcinogenic polynuclear aromatic hydrocarbons [PAHs]). II

= the maximum detected concentration did not exceed the USEPA proposed soil screening levels (SSLs), 9355.4-14FS, dated December 1994 = the analyte was detected at less than 5 percent and is a CPC in more than one media.

The value is based on arsenic as a carcinogen.

10 The value is based on chromium hexavalent form.

11 USEPA Office of Solid Waste and Emergency Response (OSWER) Directive No. 9355.4-12 revised interim recommended soil cleanup for Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Resource Conservation and Recovery Act (RCRA) sites.

The average of a sample and its duplicate is used for all table calcutations. Notes:

Sample locations include: 28BS00106, 28BS00504, 28BS01004, 28BS01704, 28BS002204, 28BS03104, Duplicate sample locations include: 28BS03104D

Background sample locations include: MPT-B-BS01; MPT-B-BS04; MPT-B-BS05; MPT-B-BS06 Duplicate background sample locations include: MPT-B-BS1Dup

SWMU = solid waste management unit CPC = chemicals of potential concern. = not detected in any background samples.

μg/kg = micrograms per kilograms. ND = not detected in any backgrour

mg/kg = milligrams per kilograms. PCBs = polychlorinated biphenyls. NA = not available.

MP-GI&II.RFA ASW.11.95

Groundwater Analytical Results. A summary of groundwater quality parameters is provided in Table 7-10 and Table 7-11 summarizes the validated analytical results for organic and inorganic analytes detected in groundwater samples collected at SWMU 28. A summary of frequencies of detection, range of detection limits, range of detected concentrations, arithmetic mean, and bench mark comparison values are provided in Table 7-12. Bench mark comparison values consist of background screening values computed from station wide background groundwater samples (ABB-ES, 1995b), USEPA Region III RBCs (USEPA, 1995), and Florida groundwater guidance values (FDEP, 1994).

Each of the bench mark criteria provided in Table 7-12 are human health based and represent the lower of either a noncarcinogenic HI of 1 or a lifetime excess cancer risk of 10^{-6} . Bench mark values for a noncarcinogenic HI of 1 or less represent a concentration where noncarcinogenic effects are not likely. A bench mark value for a lifetime excess cancer risk of 10^{-6} represents a chance of 1 in 1,000,000 for an adverse carcinogenic effect for a continuous lifetime exposure.

The water quality parameters for the SWMU 28 groundwater monitoring wells were compared to the State of Florida secondary water quality criteria (Table 7-10). Values determined for color met or exceeded the State of Florida secondary water quality criteria for six of the groundwater samples. Values determined for Hardness as CaCo_3 suggest that the groundwater would be considered very hard (greater than 180 mg/ ℓ for the groundwater sample collected from the monitoring wells [Durfor and Becker, 1964]). The values determined for total dissolved solids suggest that the groundwater would be considered fresh. The range for classifying water as fresh is 0 to 1,000 mg/ ℓ (Freeze and Cherry, 1979).

Target analytes detected in monitoring well MPT-8-MW05S, which is hydraulically upgradient from SWMU 28, consist of one SVOC 3- and 4-methylphenol (2) and nine inorganics (arsenic, barium, calcium, chromium, iron, magnesium, manganese, vanadium, and zinc). VOCs, pesticides, and PCBs were not detected in the groundwater samples collected from monitoring well MPT-8-MW05S.

Target analytes detected in the monitoring wells and piezometers hydraulically downgradient from SWMU 28 consisted of 1 VOC (methylene chloride), 1 SVOC (bis(2-ethylhexyl)phthalate), and 15 inorganics (arsenic, barium, calcium, cadmium, chromium, iron, magnesium, manganese, nickel, sodium, tin, thallium, vanadium, zinc, and cyanide).

Groundwater samples collected for inorganic analysis from MPT-8f-MWO1S on July 11, 1994, consisted of an unfiltered (08MWO01S) and filtered (45 micron) sample (08MW001SF). The filtered sample contained lower concentrations of arsenic, calcium, iron, magnesium, manganese, and magnesium, and similar concentrations for sodium and thallium. The filtered sample did not contain barium. The difference in the two samples may be due to the removal of colloidal size material in the filtered sample. The filtered sample is a reference sample to assess the low flow sampling methodology, which appears to effectively obtain a groundwater sample that is representative of the aquifer.

7.4 PRELIMINARY RISK EVALUATION. The following presents a preliminary risk evaluation of the target analytes detected in surface and subsurface soil samples. The preliminary risk evaluation assesses the detected concentrations in the environmental samples against background screening and bench mark values. The evaluation includes surface soil samples collected at Sections 1, 2, and 3 and the

		Water Quality	Table 7-10 Water Quality Parameters for SWMU 28 Groundwater Samples	Table 7-10 for SWMU 28 Ground	water Samples		
			Groups I and III U.S. Nav Mayport	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida		·	
Analyte Batch No.:		23921	M7505	23887	M7505	R8405	
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Location:		MPT-8-MW01S	MPT-8-MW01S	MPT-8-MW05S	MPT-8-MW05S	MPT-28-MW01S	Secondary 1
Sample No.:		8MW1	08MW001S	BMW5S	08MW005S	28MW001S	Criteria
Date Sampled:		01-FEB-94	11-JUL-94	1-27-93	26-JUL-94	11-JULY-94	
Common Name	Units	Conc.	Cone.	Conc.	Сопс.	Conc.	Conc.
Alkalinity as CaCO,	mg/t	163	150	250	242	332	:
Ammonia-N	∦ /gw	0.2	0.7	į	6 , 1	ł	1
Chloride	1 /6ш	14.9	5.6	8,5	31.7	17.1	250,000
Calor	APHA	. 15	0.2	15	30	50	5
Hardness as CaCO ₃	1/6m	220	180	288	262	251	
Nitrate/Nitrite-N	#/gm	AN	NA AN	N V	NA A	0.26	10,000
Oil and Grease	mg/f	324	0.1	5 <u>,</u>	NA	I	ı
Phosphorous-P, Total	mg/t	0.75	8.0	0.24	0.81	9:	1
Sulfate	mg/ <i>t</i>	25.5	33.2	45.2	36,4	71.4	250,000
Sulfide	1/6m	0.5	ł	ı	6.0	ı	:
Total Dissolved Solids	3 /6ω	324	422	388	417	442	200
Total Kjeldahl Nitrogen	mg/f	0.8	1.3	9.0	3.4	8.3	t
Total Organic Carbon	1 /6ш	4.1	4.6	4.7	5.2	e S	!
H	Sı	7.6	7.6	7.5	7.4	7.3	6.5 to 8.5
See notes at end of table.							

Water Quality Pal	ramete	rs for SWMU 28	Water Quality Parameters for SWMU 28 Groundwater Samples	saidu
	Grou	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	oort	
Analyte Batch:		R8609	R8609	
Sample Matrix:		Groundwater	Groundwater	Groundwater
Sample Location:		MPT-10-P01	MPT-15-P01	Secondary 1 Water Quality
Sample No.:		100P001	15OP001	Criteria
Date Sampled:		24-AUG-94	24-AUG-94	
Common Name	Units	Conc.	Cone.	Conc.
Alkalinity as CaCO ₃	mg/t	207	291	!
Ammonia nitrogen	7/6w	ı	9.0	l
Chloride	a/gш	9.1	43.7	250,000
Color	APHA	20	5.0	15
Hardness as CaCO ₃	mg/!	252	326	;
Nitrate = nitrite nitrogen	mg/t	0.26	l	10,000
Oit and grease	1/6m	N A	¥N	•
Phosphorous P, total	mg/ℓ	0.63	5.0.5	!
Sulfate	mg/f	48	62.9	250,000
Sulfide	mg/t	1,4	1	•
Total dissolved solids	mg/t	349	503	200
Total Kjeldahl nitrogen	mg/t	1,7	1.2	1
Total organic carbon	a/6m	36.1	8.2	1
Hd	SU	7.4	7.1	6.5 to 8.5
' Secondary Water Quality Criteria Chapter 17-550.320, Florida Administrative Code (FAC)	ia Chapt	er 17-550.320, Florida	Administrative Code	(FAC).
Notes: Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C. SWMU = solid waste management unit. APHA = American Public Health Association. Caco. = carcium carbonate. NA = not analyzed.	d at Nav anageme	al Energy and Envirol ant unit. AP NA	ronmental Support Activity (NEESA) Level C analyte not detected. APHA = American Public Health Association. NA = not analyzed.	ity (NEESA) Level 1. 5 Health Association

Organic	Table 7-11 Table 7-11 Croundwater Samples At SWMU 28	Table 7-11 lytes Detected in G	iroundwater Samp	les At SWMU 28	
		Groups I and II RFA SV Report U.S. Naval Station Mayoort, Florida	/ Report on a		
aboratory Batch No.:	23918	M7504	M7504	23886	R8403
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Location:	MPT-8-MW01S	MPT-8-MW01S	MPT-8-MW01S	MPT-8-MW05	MPT-8-MW05
Sample No.:	8MW1	08MW001S	08MW001SF	MPT8MW5S	08MW005S
Sample Date	2-FEB-93	11-JUL-94	11-JUL-94	27-JAN-93	26-JUL-94
VOCs (8240) (µg/f)					
Methylene chloride	J S	;	:	i	:
SVOCe (8270) (µg/l)					
bis(2-Ethylhexyl)phthalate	5.5	:	ŀ	i	: 6
3- 8. 4-Methylphenol (2)	:	1	1	:	87
Inorganics (µg/f)			•	- 6	1
Arsenic	3.2 J	1.1 J	.95 J	C 5.3	i
Barium	6.7.6	3.9 J	:	6.5 J	1 6
Calcium	:	27,900	58,800	89,500	84,500 J
Cadmium	3.0 J	:	:	: 3	:
Chromium	J 5,4	i	:	1 20 1	:
lou	:	710 J	450	2,760 J	t
Magnesium	ı	6,180	5,730	15,400	:
Малдалеѕе	t	43.6 J	39.3 ქ	5.6E	;
Nickel	•	1	1	:	Ì
Sodium	;	4,980 ل	4,940 J	:	:
<u> </u>	13.2 J	ı	1	;	t
Thallium	1	1.5 J	1.5 վ	: !	:
Vanadium	6.3 J	t	:	7.2 J	ı
Zinc	31	:	ı	23.9 J	1
Cyanide	1	1	;	:	;
See notes at end of table.					

	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	SV Report ion da	
Laboratory Batch No.:	M7505	R8609	R8607
	Groundwater	Groundwater	Groundwater
Sample Location:	MPT-28-MW01S	MPT-10-PO1	MPT-15-P01
Sample No.:	28MW001S	100P001	15OP001
Sample Date	11-JUL-94	24-AUG-94	24-AUG-94
VOCs (8240) (µg/f)		l	
Methylene chloride	;	:	:
SVOCs (8270) (µg/f)			
bis(2-Ethylhexyl)phthalate	ı	:	:
3- & 4-Methylphenol (2)	:	i	•
Inorganics (µg/1)			•
Arsenic	4.3 J	1.4 J	LO.L
Barium	L 0.7	4.7 J	3.1 J
Calcium	97,700	006'22	129,000
Cadmium	;	ı	1
Chromium	;	:	l
u o	173 J	46.7	130
Magnesium	10,800	11,400	4,800 J
Manganese	42.9 J	4.5 J	33.4
Nickel	7.6 J	1	•
Sodium	12,400	8,190	30,800
Tin	1	:	1
Thallium	;	ī	1
Vapadium	4.8	U 4.4	1.9.1
Zoc	;	3.6 J	5.4 J
Cinc	ŧ	3.6 J	3.0 ₪
Notes: SWMU = solid waste management unit.		"J" = estimated value. = analyte not detected.	

				Table 7-12		90			
		Chemica	Chemicals of Potential Concern in Groundwater at SWMU 28	oncern in Gro	undwater at \$	WMU 28			
			Groups I U.S M	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	epart				
Analyte	Frequency of Detection ¹	Range of Reporting Limits	Range of Detected Concentrations ²	Mean of Detected Concentration	Background Screening Concentration	Risk Based Screening Concentration ^s	Florida Guidance Concentration	Analyte CPC? (Yes/No)	Reason
Volatiles (µg/l)									
No Analytes Detected									
Semivolatiles (µg/f)									
No Analytes Detected									
Pesticides/PCBs (µg/f)									
No Analytes Detected									
Inorganice (µg/f)						e e	í	1	0
Arsanic	4/4	0.6 to 10	1 to 4.3	α,	11,4	°0.038	ŝ	2 :	י מ
Barium	4/4	0.4 to 200	3.1 to 7	4.7	10.2	260	2,000	2	6
Calcium	4/4	41.7 to 5,000	57,900 to 129,000	90,625	170,450	1,055,398	¥ Z	ž	c ò
oc.	4/4	9.1 to 100	46.7 to 710	265	2,076	13,267	300	£	œ
Macnesium	4/4	31.4 to 5,000	4,800 to 11,400	8,295	21,234	118,807	¥ Z	S S	6
Mandanese	4/4	0.6 to 15	4.5 to 43.6	31.1	185.8	18	20	2	æ
le soil	1/4	5.9 to 40	7.6	7.6	Q.	73	100	운	ග ග්
Sodium	4/4	14.4 to 5,000	4,980 to 30,800	14,237	18,624	396,022	160,000	ž	g Š
Thallium	1/4	0.6 to 10	7:5	7.	Q	°0.29	8	Yes	
Vanadium	3/4	1.5 to 50	1.9 to 4.8	3.7	10.6	58	49	2	80
Zinc	2/4	1 to 20	3,6 to 5,4	4.5	90	1,100	2000	2	œ
Cyanide	2/4	2.7 to 10	3 to 3.6	3.3	6.1	73	500	운	ย
See notes on next page.									

Chemicals of Potential Concern in Groundwater at SWMU 28 Table 7-12 (Continued)

Groups I and II RFA SV Report U.S. Naval Station

(Yes/No) Analyte CPC? Concentration Guidance Concentration Risk Based Screening Concentration* Background Screening Mayport, Florida Concentrations³ Detected Mean of Concentrations Detected Reporting Range of Limits Detection 1 Frequency

Analyte

Reason'

Value indicated by asterisk is the average of a sample and its duplicate. For nondetected values, 1/2 the contract required quantitation limit or contract required detection Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected values)

The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected including values qualified with a "J"; it does not include those samples where the analyte was not detected ("U," or "UJ" qualifier) and rejected ("R" qualifier).

concentrations (RBC) for tap water per January 1993 guidance (Selecting Exposure Routes and Contaminants of Concern by Risk-Based Screening, EPA/903/R-93-001) was For all chemicals except the essential nutrients (calcium, iron, magnesium, potassium, and sodium), U.S. Environmental Protection Agency (USEPA) Region III risk based used for screening. Actual values are taken from RBC Table dated February 1995, and are based on a cancer risk of 10° or an adjusted hazard quotient of 0.1. For the The background screening value is twice the average of detected concentrations for inorganic analytes in background samples.

 Florida Department of Environmental Protection Groundwater Guidance Concentrations (June 1994). essential nutrients, screening values were derived based on recommended daily allowances (RDAs).

Analytes were included or excluded from the risk assessment for the following reasons:

S = the maximum detected concentration did not exceed the screening concentration and will not be considered further.

= the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at background locations. = the maximum detected concentration did not exceed the Rorida cleanup goals and will not be considered further.

= the frequency of detection was less than 5 percent and professional judgment was used to exclude analyte from further study. மைய

= the analyte is a member of a chemical class that contains other human health chemicals of potential concern (HHCPCs) (i.e., carcinogenic polynuclear aromatic hydrocarbons [PAHs]).

= the maximum detected concentration did not exceed the USEPA proposed soil screening levels (SSLs), 9355.4-14FS, dated December 1994. M = the analyte was detected at less than 5 percent and is a HHCPC in more than one media.

The values is based on thallium as thallium sulfate. The value is based on arsenic as a carcinogen. •

The average of a sample and its duplicate is used for all table calculations. Notes:

Sample locations include: OBMW001S, 100P001, and 150P001

Background sample locations include: 01MW001, 08MW005S, 08MW001S, 0SMW001R, 8MW5S, MPT-1-MW1-1, MPT-S-1-1, and S1.

CPCs = chemicals of potential concern.

ug/1 = micrograms per litter

PCBs = polychlorinated biphenyls.

 not detected in any background samples. NA = not available. ND = not detected recycling center at SWMU 28; subsurface soil collected at Sections 1, 2, and 3; and groundwater samples collected from monitoring wells and piezometers located hydraulically downgradient from SWMU 28.

<u>Surface Soil</u>. Chemicals of potential concern consist of one SVOC (4-chloro-3-methylphenol and two inorganics (arsenic and beryllium). VOCs were not determined to be chemicals of potential concern, and pesticides and PCBs were not detected in the surface soil samples collected at SWMU 28.

Section 1 surface soil samples did not contain detectable concentrations of the SVOCs 4-chloro-3-methylphenol and benzo(g,h,i)perylene. Arsenic was detected in nine samples and a duplicate and beryllium was detected in eight surface soil samples and a duplicate at Section 1.

Arsenic was not detected in background surface soil samples. The concentrations of arsenic detected in the Section 1 surface soil samples exceeded the USEPA Region III RBC (0.37 mg/kg), the proposed Superfund SSL (0.4 mg/kg), and the FDEP cleanup goal (0.7 mg/kg).

The concentrations of beryllium detected in the Section 1 surface soil samples exceeded the background screening value (0.16 mg/kg) in one sample. The USEPA Region III RBC (0.15 mg/kg) was exceeded in one sample and the proposed Superfund SSL and Florida cleanup goal of 0.1 mg/kg was exceeded in three samples.

Section 2 surface soil samples did not contain detectable concentrations of the SVOC 4-chloro-3-methylphenol. Arsenic was detected in nine samples and a duplicate and beryllium was detected in eight surface soil samples and a duplicate at Section 2.

The concentrations of arsenic detected in the Section 2 surface soil samples exceeded the USEPA Region III RBC, the proposed Superfund SSL, and the FDEP cleanup goal. The concentrations of beryllium detected in the Section 2 surface soil samples did not exceed the background screening value. The USEPA Region III RBC was not exceeded and the proposed superfund SSL and Florida cleanup goal was exceeded in three samples.

Section 3 surface soil samples contained 4-chloro-3-methylphenol in 1 of 15 samples at a concentration of 55 mg/kg. Arsenic was detected in 15 samples and 2 duplicates and beryllium was detected in 11 surface soil samples and 2 duplicate surface soil samples.

4-Chloro-3-methylphenol was determined to be a chemical of potential concern because there are no bench mark values to assess this organic compound.

The concentrations of arsenic detected in the Section 3 surface soil samples exceeded the USEPA Region III RBC, the proposed Superfund SSL and Florida cleanup goal. The FDEP cleanup goal was exceeded in eight surface soil samples.

The concentrations of beryllium detected in the Section 3 surface soil samples exceeded the background screening value in three surface soil samples. The USEPA Region III RBC was exceeded in 3 surface soil samples and the proposed superfund SSL and Florida cleanup goal was exceeded in 13 samples.

Surface soil samples collected at the recycling center part of SWMU 28 did not contain detectable concentrations of the SVOC 4-chloro-3-methylphenol. Arsenic and beryllium were detected in both of the surface soil samples collected at this location. The concentrations of arsenic exceeded the USEPA Region III RBC, the proposed Superfund SSL, and the FDEP cleanup goal. The concentrations of beryllium exceeded the background screening value, the USEPA Region III RBC, the proposed Superfund SSL and the Florida cleanup goal.

<u>Subsurface Soil</u>. The subsurface soil samples did not contain VOCs at concentrations that exceeded bench mark values. Pesticides and PCBS were not detected in the subsurface soil samples. Organic target analytes that exceeded bench mark values were five SVOCs (benzo(a)anthracene, benzo(b)perylene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene). Inorganic target analytes that exceeded background screening values and bench mark values were arsenic and beryllium.

The subsurface soil samples collected in Section 1 of SWMU 28 did not contain detectable concentrations of the SVOCs. Arsenic was detected in both of the Section 1 subsurface soil samples and beryllium was detected in only one of the samples.

Only one of the samples contained arsenic at a concentration (8.3 mg/kg) that exceeded the background screening value (0.9 mg/kg). Both of the subsurface soil samples collected at Section 1 contained arsenic at concentrations that exceeded the USEPA Region III RBC (0.37 mg/kg) and the proposed Superfund SSL (0.37 mg/kg). One subsurface soil sample contained arsenic at a concentration that exceeded the FDEP cleanup goal (3 mg/kg) for an industrial worker.

The concentration of beryllium detected in the Section 1 subsurface soil sample (1.3~mg/kg) exceeded the background screening value (0.14~mg/kg), the USEPA Region III RBC (0.15~mg/kg), and the proposed Superfund SSL and the Florida cleanup goal 0.1~mg/kg.

The subsurface soil samples collected in Section 2 of SWMU 28 did not contain detectable concentrations of the SVOC. Arsenic and beryllium were detected in both of the Section 2 subsurface soil samples.

Arsenic was detected in one of the subsurface soil samples at a concentration (1.9~mg/kg) that exceeded the background screening value. Both of the section 2 subsurface soil samples contained arsenic at concentrations that exceeded the USEPA Region III RBC and the proposed Superfund SSL, but not the FDEP cleanup goal for an industrial worker.

Beryllium was detected in one of the subsurface soil samples at a concentration (1.9 mg/kg) that exceeded the background screening value. One of the samples contained beryllium at a concentration that equaled the USEPA Region III RBC and both of the section 2 subsurface samples contained beryllium at concentrations that exceeded the proposed Superfund SSL.

One of the subsurface soil samples from Section 3 contained the SVOC dibenz(a,h)anthracene at a concentration (180 $\mu g/kg$) that exceeded the USEPA Region III RBC (88 $\mu g/kg$) and the proposed Superfund SSL (90 $\mu g/kg$). Because PAH compounds like dibenz(a,h)anthracene may have additive adverse carcinogenic effects, the other PAH compounds (benzo(a)anthracene, benzo(b)perylene, chrysene,

and indeno(1,2,3-cd)pyrene) were also indicated to exceed the bench mark values. However, none of the PAH compounds were detected at concentrations that exceed the FDEP cleanup goals.

Arsenic was detected in one of the subsurface soil samples at a concentration (4 mg/kg) that exceeded the background screening value. One subsurface soil sample and the corresponding duplicate to the other subsurface soil sample contained arsenic at concentrations that exceeded the USEPA Region III RBC and the proposed Superfund SSL. One of the samples contained arsenic at concentrations that exceeded the FDEP cleanup goal for an industrial worker.

Beryllium was detected as a single occurrence in the Section 3 subsurface soil samples at a concentration (0.28 mg/kg) that exceeded the background screening value, the USEPA Region III RBC, and the proposed Superfund SSL and the Florida cleanup goal.

Groundwater. Four of the groundwater samples collected in 1994 from monitoring wells MPT-8-MWO1S and MPT-28-MWO1S, and piezometers MPT-10-PO1 and MPT-15-PO1 were used to assess CPCs for SWMU 28 groundwater samples. Monitoring well MPT-8-MW05S was excluded because it is hydraulically upgradient from SWMU 28. Data collected in 1992 from monitoring well MPT-8-MW01S was excluded because the sampling method produced a turbid sample that was not as representative of the groundwater produced from the well as data collected in 1994 using low flow sampling methodology. The difference between the samples is illustrated by the detection of different analytes, with the exceptions of arsenic and barium, in the samples from 1993 and 1994.

Only one target analyte, thallium, was determined to be a chemical of potential concern. Thallium was detected as a single occurrence in the groundwater sample from monitoring well MPT-8-MWOl at a concentration of 1.5 μ g/ ℓ . It should be noted that the filtered sample contained thallium at the same concentration. Thallium was not detected in the background groundwater samples. The concentration of thallium exceeded the USEPA Region III RBC (0.29 μ g/ ℓ), but not the FDEP guidance concentration (2 μ g/ ℓ). The FDEP guidance concentration is a promulgated standard.

7.5 CONCLUSIONS AND RECOMMENDATIONS.

7.5.1 Conclusions

<u>Surface Soil Samples</u>. None of the VOCs (acetone, methylene chloride, and xylenes) were detected in the surface soil samples collected at SWMU 28 at concentrations that exceeded the bench mark values. Pesticides and PCBs were not detected in the surface soil samples. One SVOC (4-chloro-3-methylphenol) and two inorganics (arsenic and beryllium) were determined to be chemicals of potential concern.

The SVOC 4-chloro-3-methylphenol was determined to be a chemical of potential concern because, currently, there is not a bench mark criteria for this compound.

The inorganic analytes, arsenic and beryllium, exceeded both background screening and bench mark values. Arsenic is considered to exceed background screening

values because it was not detected in surface soil background samples. Concentrations of arsenic exceeded the USEPA Region III RBC (0.37 mg/kg), the proposed Superfund SSL (0.4 mg/kg), and the FDEP cleanup goal (0.7).

Beryllium was detected at concentrations that exceeded the background screening value (0.16 mg/kg), the USEPA Region III RBC (0.15 mg/kg), and the proposed Superfund SSL and Florida cleanup goal of 0.1 mg/kg.

Arsenic and beryllium were detected in surface soil samples at concentrations that exceeded bench mark values, which are based on values for a lifetime excess cancer risk of 10^{-6} . However, the potential risk associated with concentrations of arsenic and beryllium that were detected is within a range (10^{-4} to 10^{-6}) that is considered by USEPA to be protective of human health (40 CFR 300, 1990) (see Table C-1, Appendix C).

Subsurface Soil Samples. None of the VOCs (2-butanone, acetone, carbon disulfide, and xylenes) were detected in the subsurface soil samples collected at SWMU 28 at concentrations that exceeded the bench mark values. Pesticides and PCBs were not detected in the surface soil samples. Five SVOCs (benzo(a)anthracene, benzo(b)perylene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene) and two inorganics (arsenic and beryllium) were determined to be chemicals of potential concern.

One of the subsurface soil samples from Section 3 contained the SVOC dibenz(a,h)anthracene at a concentration (180 μ g/kg) that exceeded the USEPA Region III RBC (88 μ g/kg) and the proposed Superfund SSL (90 μ g/kg). Because PAH compounds like dibenz(a,h)anthracene may have additive adverse carcinogenic effects, the other PAH compounds (benzo(a)anthracene, benzo(b)perylene, chrysene, and indeno(1,2,3-cd)pyrene) were also indicated to exceed the bench mark values. However, none of the PAH compounds were detected at concentrations that exceed the FDEP cleanup goals.

Arsenic and beryllium were detected in subsurface soil samples at concentrations that exceeded bench mark values, which are based on values for a lifetime excess cancer risk of 10^{-6} . However, the potential risk associated with concentrations of arsenic and beryllium that were detected is within a range (10^{-4} to 10^{-6}) that is considered by USEPA to be protective of human health (40 CFR Part 300) (see Table C-7, Appendix C).

Because the land features at NAVSTA Mayport are influenced by the deposition of dredge material from Mayport Turning Basin, it cannot be determined whether the concentrations of arsenic and beryllium are related to a release at SWMU 28, or are residual concentrations from the dredge material.

<u>Groundwater</u>. Only one target analyte, thallium, was determined to be a chemical of potential concern. Thallium was detected as a single occurrence and exceeded the USEPA Region III RBC $(0.29~\mu g/\ell)$, but not the FDEP guidance concentration (2 $\mu g/\ell$) (see Table C-8, Appendix C). The FDEP guidance concentration is a promulgated standard. Also, thallium was not detected in surface or subsurface soil samples, therefore, SWMU 28 is not likely the source for this analyte in groundwater.

7.5.2 Recommendations SWMU 28 is recommended for no further investigation at this time based on the following rationale.

- No pesticides or PCBs were detected in surface or subsurface soil samples.
- None of the VOCs (acetone, methylene chloride, and xylenes) were detected in the surface soil samples collected at SWMU 28 at concentrations that exceeded the bench mark values.
- None of the VOCs (2-butanone, acetone, carbon disulfide, and xylenes) were detected in the subsurface soil samples collected at SWMU 28 at concentrations that exceeded the bench mark values.
- None of the PAH compounds were detected at concentrations that exceed the FDEP cleanup goals.
- Arsenic and beryllium were detected in surface and subsurface soil samples at concentrations that exceeded bench mark values, which are based on values for a lifetime excess cancer risk of 10^{-6} . However, the potential risk associated with concentrations of arsenic and beryllium that were detected is within a range (10^{-4} to 10^{-6}) that is considered by USEPA to be protective of human health (40 CFR Part 300).
- Thallium was detected as a single occurrence and exceeded the USEPA Region III RBC, but not the FDEP guidance concentration, which is a promulgated standard. Thallium was not detected in the surface or subsurface soil samples at SWMU 28. SWMU 28 is not likely the source of the thallium detected in the groundwater samples.
- The only extenuating factor is the SVOC 4-chloro-3-methylphenol, which was detected as a single occurrence in a surface soil sample and was determined to be a chemical of potential concern. Currently there are no bench mark criteria to evaluate this compound. Because this analyte was detected in 1 of 35 samples (approximately 2.8 percent) and was not detected in subsurface or groundwater samples, USEPA guidance allows 4-chloro-3-methylphenol not to be considered a chemical of potential concern. (USEPA, 1989b).
- The default assumptions used in estimating risk based bench mark concentrations may not be representative and likely overstate the specific exposure present at the site (i.e., underestimate the concentration that would result in a lifetime excess cancer risk of 10^{-6}). Because the chemicals were detected in only one or two media (i.e., soil and or groundwater) all of the exposure pathways and assumptions used to estimate the bench mark concentrations are not relevant. Therefore, the concentrations may exceed the bench mark values (USEPA, 1994, USEPA, 1995, and FDEP, 1995) but actually result in a lower excess cancer risk than 10^{-6} .

8.0 SWMU 48, FORMER CHEMISTRY LABORATORY ACCUMULATION AREA

8.1 SITE DESCRIPTION AND BACKGROUND. SWMU 48 was identified from photographs obtained from FDEP, formerly the Florida Department of Environmental Regulation (FDER), files (FDER, 1981) during preparation of the RFA (A.T. Kearney, 1989). The photographs showed numerous plastic and steel containers labeled "mercury waste" stored outside in a grassy field near a fence, ten 55-gallon drums, and approximately 50 smaller plastic containers. Visible in one of the photographs was a half-buried storage tank (believed to be Tank 1432, SWMU 51-S), with an underground, above-grade tank behind it, and a road and fence in front.

It is believed that SWMU 48 is located behind (northwest) the current Chemistry Laboratory at the OWTP (Building 1346, formerly Building 1442), approximately 400 feet from the St. Johns River (Figure 8-1). This agrees with the captions on the photographs, which read "Waste Behind Chemistry Lab" and "Mercury Waste." At the time of the VSI, no drums or containers were observed in the area. The area was not specifically identified during the IAS (ESE, 1986) nor had it been examined for evidence of releases to the environment.

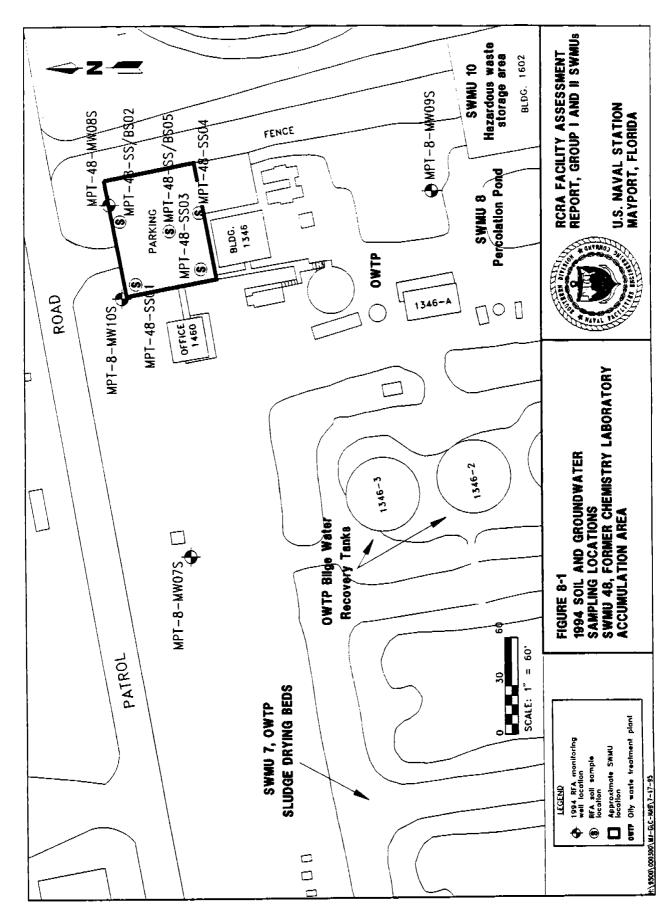
The RFA recommended that the location and areal extent in which these wastes were stored be verified. The RFA also recommended that soil and groundwater samples be collected and analyzed to confirm the presence or absence of any releases of hazardous constituents to the environment. Based on previous site activities, it was recommended that the soil and groundwater samples be analyzed for mercury, other heavy metals, and select volatile and semivolatile organic compounds.

8.2 RFA SV FIELD INVESTIGATIONS. RFA SV field investigations at SWMU 48 included collection of surface soil, subsurface soil, and groundwater samples. Soil sampling was conducted on August 8, 1994. Groundwater sampling occurred between June and August 1994. Soil and groundwater sampling was conducted to assess the potential release of hazardous constituents at the site and to obtain sufficient surface soil, subsurface soil, and groundwater samples to evaluate potential exposure pathways and conduct a preliminary risk screening.

Five surface soil samples and two subsurface soil samples were collected at SWMU 48 (Figure 8-1). The surface soil samples were collected from 0 to 1 foot bls and the subsurface soil samples were collected at 4 to 5 feet bls.

Groundwater samples were collected from two existing monitoring wells (MPT-8-MW07S and MPT-8-MW08S) and two newly installed monitoring wells (MPT-8-MW09S and MPT-8-MW10S) (Figure 8-1). Monitoring wells MPT-8-MW07S and MPT-8-MW08S were sampled previously in 1993. Monitoring well MPT-8-MW07S was not sampled in 1994 due to the presence of floating free-phase hydrocarbons. The floating free-phase hydrocarbons in monitoring well MPT-8-MW07S are believed to be related to a release from SWMUs 6 and 7 (Figure 8-1).

Because many field activities are common to all NAVSTA Mayport SWMUs, the sampling procedures for RFI and RFA SV (confirmatory sampling) events are described in Section 2.1, Summary of Exploration and Sampling Program, of the NAVSTA Mayport GIR (ABB-ES, 1995b). Site-specific elements and deviations from sampling procedures, if any, particular to SWMU 48 are discussed in subsequent paragraphs, and standard operating procedures are referenced where necessary. Monitoring well installation, soil and groundwater sampling procedures,



and associated equipment decontamination procedures were conducted in general conformance with USEPA Region IV standard operating procedures (USEPA, 1991a).

<u>Soil Sample Collection Procedure</u>. Surface and subsurface soil sampling was accomplished as described in the NAVSTA Mayport RFI workplan (ABB-ES, 1991), and Subsection 2.1.1, Soil Sampling, of the GIR (ABB-ES, 1995b).

Monitoring Well Installation Procedure. Drilling and well installation were accomplished as described in the NAVSTA Mayport RFI workplan (ABB-ES, 1991), and Subsection 2.1.1, Monitoring Well and Piezometer Installation, of the GIR (ABB-ES, 1995b).

Groundwater Sample Collection Procedure. Groundwater sampling was accomplished as described in Subsection 2.1.4, Groundwater Sampling, of the GIR (ABB-ES, 1995b).

<u>Laboratory Analyses</u>. Soil and groundwater samples were analyzed for the same target analytes including VOCs, SVOCs, pesticides, PCBs, metals, and cyanide selected from the groundwater monitoring list contained in Appendix IX, 40 CFR 264 and USEPA Contract Laboratory Program target compound list and target analyte list. Environmental samples were analyzed using methods from Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW 846) (USEPA, 1986). A list of the target analytes is provided in Appendix A and complete analytical results are provided in Appendix B.

8.3 FINDINGS. The following presents a brief description of the results of the RFA SV sampling activities at SWMU 48. The results include site geologic and hydrogeologic conditions and results of the analyses of surface and subsurface soil samples and groundwater samples.

Site Geology. Subsurface soil samples were collected to determine the lithology of sediments beneath SWMU 48. During the installation of monitoring wells MPT-8-MW07S, MPT-8-MW08S, MPT-8-MW09S, and MPT-8-MW10S (Figure 8-1) soil samples were collected at discrete 2-foot intervals down to the explored depth of 15.5 feet (Figure 8-1). Soil samples for lithologic information were not submitted for laboratory analyses because these wells were installed outside the SWMU boundary. The shallow monitoring wells were installed with the screens placed across the water table (Table 8-1).

Boring logs for monitoring wells are found in the GIR Appendix A, Boring Logs (ABB-ES, 1995b). The following is a description of the subsurface soils encountered at the boring locations.

- Boring MPT-8-MW07S (located approximately 160 feet west of SWMU 48) encountered a dark brown sand with shells from the land surface to a depth of 2 feet bls overlying a fine-grained sand with shells to the explored depth of 15.5 feet bls.
- Boring MPT-8-MW08S (located at the northeast corner of SWMU 48) encountered a dark brown sand to 2 foot bls beneath a surficial asphalt layer, which was overlying fine-grained sands to the explored depth of 15.5 feet bls. A thin seam of silty sand also was encountered from 7 to 8 feet bls.

Table 8-1 Monitoring Well Installations Near SWMU 48

Groups I and II RFA SV Report U. S. Naval Station Mayport, Florida

	***-	3 F = 1 - 1 - 1		
SWMU Number	Monitoring Well No.	Diameter (inches)	Total Depth (feet)	Screened interva
8	MPT-8-MW07S	2	15	5 to 15
8	MPT-8-MW08S	2	15	5 to 15
8	MPT-8-MW09S	2	15	5 to 15
8	MPT-8-MW18S	2	15	5 to 15

Notes: SWMU = solid waste management unit. bls = below land surface.

- Boring MPT-8-MW09S (located approximately 150 feet south of SWMU 48) encountered surficial seams of sands with medium-sized gravel and silty clay to 1 foot bls overlying silty fine- to medium-grained sands with shells to the explored depth of 15.5 feet bls.
- Boring MPT-8-MW10S (located at the northwest corner of SWMU 48) encountered
 a silty fine- to medium-grained sand with shells from the land surface to
 the explored depth of 15.5 feet bls.

Geologic cross sections provided in the NAVSTA Mayport GIR (see Figures 3-5 and 3-6, ABB-ES, 1995b) depict subsurface geologic conditions in the vicinity of SWMU 48.

The groundwater levels at each monitoring well in the Site Hydrogeology. vicinity of SWMU 48 and for other RFI and RFA SV sites at NAVSTA Mayport were measured within a 7-hour period on August 30, 1994. The depth to the groundwater at each location was measured relative to a notch or mark on the north side of each well surveyed to the NGVD of 1929 (commonly referred to as msl). The depths to groundwater measured at each of the SWMU 48 monitoring wells are provided in Appendix G, along with other monitoring wells in the vicinity of the site. Also shown on the table are values for the water level measurements relative to the NGVD datum. The elevation data were used to prepare a map of the potentiometric surface (lines that represent altitudes of equal height above the reference datum) of the water table zone of the surficial aquifer. The potentiometric surface map of the water table is used to infer that groundwater flow is from higher to lower altitudes in a direction perpendicular to the equipotential lines. Based on the equipotential lines shown on Figure 7-2, the groundwater flow direction at SWMU 48 is generally toward the north, toward the St. Johns River.

The hydraulic position of the monitoring wells relative to SWMU 48 also is based on the equipotential lines shown on Figure 7-2. Monitoring well MPT-8-MW09S is located hydraulically upgradient from SWMU 48. Monitoring wells MPT-8-MW08S and MPT-8-MW10S are located on a hydraulic downgradient side of SWMU 48. Monitoring well MPT-8-MW07S is along a similar hydraulic equal potential line as the northern part of SWMU 48. Therefore, monitoring well MPT-8-MW07S is not in the flow path of groundwater beneath SWMU 48.

An approximation of the horizontal linear velocity of groundwater flow in the water table zone of the surficial aquifer in the vicinity of SWMU 48 is based on the potentiometric surface (hydraulic gradient) of the water table, estimates of radial hydraulic conductivities at monitoring well locations, and an estimate of the porosity (ratio of the volume of voids to total volume of the soil) of the saturated subsurface soil. The horizontal linear velocity was calculated from a modified form of Darcy's equation and represents the ratio of linear travel distance to travel time between two points (Freeze and Cherry, 1979). The horizontal linear velocity is expressed as $V_{\rm D}/N_{\rm e}$, where $V_{\rm D}$ is the Darcy velocity ($V_{\rm D}={\rm KI}$, where K is radial hydraulic conductivity and I is hydraulic gradient) and $N_{\rm e}$ is the effective porosity of the saturated geologic stratum. An effective porosity of 0.35 is used in calculations. (See Section 3.2.3, Physical Characteristics of Soil, in the NAVSTA Mayport GIR, ABB-ES, 1995b).

In-situ radial hydraulic conductivity values for monitoring wells in the vicinity of SWMU 48 are presented in Table 8-2. The range of in-situ radial hydraulic conductivity values in the vicinity of SWMU 48 are approximately 1 foot per day (MPT-8-MW08S) to 2.1 feet per day (MPT-8-MW07S). The hydraulic gradient appears to be relatively uniform over SWMU 48 (0.008 ft/ft on August 30, 1994) and an approximation of the horizontal linear velocity of the groundwater ranges from approximately 0.02 to 0.05 foot per day.

Based on the values for horizontal linear velocity and assuming no dilution, dispersion, or retardation, a contaminant in the water table zone of the surficial aquifer may travel at rates of 8 to 17 feet per year (Table 8-2).

Table 8-2
Average Groundwater Velocities at SWMU 48

Groups I and II RFA SV Report U. S. Naval Station Mayport, Florida

Location	Estimated Effective Porosity	Hydraulic Conductivity (feet per day)	Estimated Gradient¹ (feet per feet)	Estimated Linear Velocity (feet per day)	Estimated Linear Velocity (feet per year)
MPT-2-MW07S	0.35	2.1 ²	0.008	0.05	17
MPT-2-MW08S	0.35	1.0 ²	0.008	0.02	8

¹ Based on synoptic water table elevations, August 30, 1994.

Note: SWMU = solid waste management unit.

Surface and Subsurface Soil Analytical Results. Tables 8-3 and 8-4 summarize the validated analytical results for target analytes detected in surface and subsurface soil samples collected at SWMU 48. A summary of frequencies of detection, range of detection limits, range of detected concentrations, arithmetic mean, and bench mark comparison values are provided in Tables 8-5 and 8-6 for surface and subsurface soil samples, respectively. Bench mark comparison values consist of background screening values computed from station wide surface and subsurface soil samples (ABB-ES, 1995b), the USEPA soil screening guidance values (USEPA, 1994), USEPA Region III RBC (USEPA, 1995) and the State of Florida cleanup goals (FDEP, 1995). The state of Florida cleanup goals consist of residential values for surface soils and industrial worker values for subsurface soil.

² In-situ conductivity measurement at MPT-2-MW8S during December 1994.

Each of the bench mark criteria provided in Tables 2-6 and 2-7 is human health based and represents the lower of either a noncarcinogenic HI of 1, where values of less than 1 represent a concentration where noncarcinogenic effects are not likely or a lifetime excess cancer risk of 10^{-6} , which represents a chance of 1 in 1,000,000 for an adverse carcinogenic effect for a continuous lifetime exposure. The concentrations listed for the USEPA Region III RBCs correspond to an HI of 0.1, whereas the USEPA Superfund SSLs and the State of Florida cleanup goals are based on an HI of 1. The NCP (40 CFR, Part 300) states that for carcinogens a lifetime excess cancer risk in the range of 10^{-4} (a chance of 1 in 10,000 for an adverse carcinogenic effect for a continuous lifetime exposure) to 10^{-6} represents concentrations that are considered by USEPA to be protective of human health.

Target analytes detected in the surface soil samples consist of 2 VOCs (carbon disulfide and xylenes), 7 SVOCs (fluoranthene, pyrene, benzo(a)anthracene, chrysene, di-n-octylphthalate, benzo(b)fluoranthene, and benzo(k)fluoranthene), and 14 inorganics (antimony, arsenic, barium, chromium, cobalt, copper, lead, mercury, nickel, thallium, tin, vanadium, zinc, and cyanide) (Table 8-3). Pesticides and PCBs were not detected in the surface soil samples.

Target analytes detected in the subsurface soil samples consisted of 10 inorganics (arsenic, barium, chromium, copper, lead, mercury, nickel, tin, vanadium, and zinc). No VOCs, SVOCs, pesticides, or PCBs were detected in the subsurface soil samples.

Groundwater Analytical Results. A summary of groundwater quality parameters is provided in Table 8-7 and Tables 8-8 and 8-9 summarize the validated analytical results for organic and inorganic target analytes detected in groundwater samples collected at SWMU 48. A summary of frequencies of detection, range of detection limits, range of detected concentrations, arithmetic mean, and bench mark comparison values are provided in Table 8-10. Bench mark comparison values consist of background screening values computed from station wide background groundwater samples (ABB-ES, 1995b), USEPA Region III RBCs (USEPA, 1995), and Florida Groundwater guidance values (FDEP, 1994).

Each of the bench mark criteria provided in Table 8-10 is human health based and represents the lower of either a noncarcinogenic HI of l or a lifetime excess cancer risk of 10^{-6} . Bench mark values for a noncarcinogenic HI of l represent a concentration where noncarcinogenic effects are not likely. A bench mark value for a lifetime excess cancer risk of 10^{-6} represents a chance of l in 1,000,000 for an adverse carcinogenic effect for a continuous lifetime exposure.

The water quality parameters for the SWMU 48 groundwater monitoring wells were compared to the State of Florida secondary water quality criteria (Table 8-7). Values determined for color exceeded the State of Florida secondary water quality criteria for two of the groundwater samples and equaled the criteria in one of the samples. These criteria are used to assess potable water from a water supply system and may not be directly applicable to a groundwater sample collected from a monitoring well. Values determined for hardness as CaCo₃ suggest that the groundwater would be considered very hard (greater than 180 mg/l for the

		Ta	Table 8-3			
Organic		and Inorganic Analytes Detected in Surface Soil Samples at SWMU 48	sted in Surface	Soil Samples at	SWMU 48	
		Groups Land U.S. N Mayp	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida			
Analyte Ratch No	M7705	M7705	M7705	M7705	M7705	M7705
Sample Location:	MPT-48-SS01	MPT-SS-SS02	MPT-48-SS03	MPT-48-SS04	MPT-48-SS04	MPT-48-SS05
Sample No.:	8SS00101	48SS00201	48SS00301	48SS00401	48SS00401Dup	48SS00501
Date Sampled	08-AUG-94	08-AUG-94	08-AUG-94	08-AUG-94	08-AUG-94	08-AUG-94
Sample Depth (ft bis):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
VOCs (8240) (µg/kg)						
Carbon disulfide	ı	;	;	:	2	;
Xylenes (total)	1	2 J	٦ ا	6 0	o	- -
SVOCs (8270) (µg/kg)						
Fluoranthene	;	i	ŀ	1	32.3	l
Pyrene	;	1	ì	ł	35	l
Benzo(a)anthracene	;	: 	;	1	, 92 1	ł
Chrysene	:	l		!	00 °	I
Benzo(k)fluoranthene	ı	1	1	1	18 T	:
Benzo(b)fluoranthene	1	;	1	ŀ	C 12	1
Di-n-octylphthalate	1	22 J	1	;	1	:
Inorganics (mg/kg)						
Antimony	ı	L 87.	ı	1	1	; ;
Arsenic	J. 15.	, 23 J	.28 J	J. 84.	. 54 J	U.7.0
Barium	D.	5.2 J	6.13	8.8	J.7.7	. 5.1 J
Chromium	2.4	2.8	3.1	5.2	4	3.0 J
Cobalt	ı	ţ	;	լ 75.	1	1
Copper	1	1	1	l	16.1 J	:
760	ı	3.8 J	1	7.5 ل	t	;
See notes at end of table.						

Organic and	Inorganic Ana	Table 8-3 (Continued) alytes Detected in Surfa	Continued) ed in Surface	Soil Samples	Table 8-3 (Continued) Organic and Inorganic Analytes Detected in Surface Soil Samples at SWMU 48	
		Groups I and II U.S. Nav: Mayport	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida			
Analyte Batch No.:	M7705	M7705	M7705	M7705	M7705	M7705
Sample Location:	MPT-48-SS01	MPT-SS-SS02	MPT-48-SS03	MPT-48-SS04	MPT-48-SS04	MPT-48-SS05
Sample No.:	8SS00101	48SS00201	485500301	48SS00401	48SS00401Dup	48SS00501
Date Sampled	08-AUG-94	08-AUG-94	08-AUG-94	08-AUG-94	08-AUG-94	08-AUG-94
Samole Depth (ft bis):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Mercury	;	ı	:	1	1	0.8 J
Nickel	:	l	i	!	3.6 J	ı
Thatlium	;	L 62	1	!	ì	1
Tin	2.8 J	2.7 J	2.7 J	:	ጉ ፎ	2.5 J
Vanadium	2.1 J	2.2 J	2.6 J	4.7 J	2.9 J	3.0 J
Zinc	:	f	7.1 J	8.1 J	14 J	;
Cyanide	1	J. 40.	.04 J			;
Notes: Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C. Suffix Dup = duplicate of the environmental sample.	at Naval Energy the environment	and Environment al sample.	tal Support Activi	ty (NEESA) Level	Ú	
SWMU = solid waste management unit. It bls = sample collection depth in feet below land surface VOCs = volatile organic compounds. µg/kg = micrograms per kilogram. = analyte not detected. "J" = estimated value. SVOCs = semivolatile organic compounds. mg/kg = milligram per kilogram.	nagement unit. o depth in feet be compounds. kilogram. ganic compounds	low land surface				

Table 8-4 Inorganic Analytes Detected in Subsurface Soil Samples at SWMU 48

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

Analyte Batch	M7705	M7705
Sample Location:	MPT-48-BS02	MPT-B\$-BS05
Sample No.:	48BS00205	48BS00505
Date Sampled	08-AUG-94	08-AUG-94
Sample Depth (ft bis):	4 - 5	4 - 5
Inorganics (mg/kg)		
Arsenic	2.5 J	0.68 J
Barium	10.1 J	7.0 J
Chromium	6.8	3.7
Copper	0.95 J	07X 15:5 J
Lead	4.0 J	
Mercury	0.15 J	-
Nickel	2.0 J	2.3 J
Tin	3.0 J	2.6 J
Vanadium	6.4 J	2.0 J
Zinc		10 J

Notes: Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C.

Suffix Dup = duplicate of the environmental sample.

SWMU = solid waste management unit.

ft bis = sample collection depth in feet below land surface.

mg/kg = milligram per kilogram.

"J" = estimated value.

- = analyte not detected.

				Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	FA SV Report Station orida					
Analyte	Frequency of Detection	Range of Reporting Limits	Range of Detected Concentrations ²	Mean of Detected Concentrations ³	Background Screening Value	Risk Based Screening Concentration ⁶	Superfund Proposed Soil Screening Levels [®]	Cleanup Goals for the Military Sites in Florida?	Analyte CPC? (Yes/No)	Reason
Voletiles (µg/kg) Carbon disulfide	1/5	5 to 5	2.25**	2.3	Q \$	780,000	7,800,000	2,600	8 2	S, P, S, D, P, S, D, P, D, P, D
Xylenes (total)	4/5	5 to 5	1 to 8.5*	Ť	<u> </u>		•			
Semivolatiles (µg/kg) Benzo(a)anthracene	1/5	350 to 1,800	100.5*	101	Q !	880	006	1,400	2 2	လ ရ ရ ရ ရ
Benzo(b)fluoranthene	1/5	350 to 1,800	*86	86	2	089	006	P.	!	<u>.</u>
į	, t	250 to 1 800	102.5*	103	8	98,000	98,000	140,000	2 :	ب ر
Chrysene D:	c/- c/-	350 to 1.800	22	52	8	160,000	1,600,000	1,500,000	<u></u> 2 :	
Di-n-octylphthalate	C/1	350 to 1,800	103.5*	104	2	310,000	3,100,000	2,800,000	2 :	ν γ ο ο
Fluorantnene Pyrene	1/5	350 to 1,800	103.5*	104	Q	230,000	2,300,000	2,200,000	2	r <u>.</u>
Posticides/PCBs (µg/kg)	=									
No analytes detected										
Inorganics (mg/kg)			,	ř	Ş		91	92	운	S, P, G
Antimony	1/5	1.04 to 1.06	0.78	0.78	2 2		4.0	°0.7	Yes	
Arsenic	2/2	2.08 to 2.12	0.23 to 0.7	0.41	2 1		, CO 10	2,000	2	S, P, G
Barium	2/2	41.58 to 42.33	5 to 8.25*	B. (o (000 000	<u> </u>	150	욷	S, P, G
Chromium	2/2	2,08 to 2.12	2.4 to 4.6*	3.2	ָם מ	930	9 Z	4,700	å	s S
Cobalt	1/5	10.395 to 10.58	2.88*	2.9	2 6	2 6	ą z	2.900	2	S, G
Copper	. 9/1	5.195 to 5.29	9.35*	9.4	, K	1,400	400	200	2	S, P, G
Lead	2/2	0.62 to 0.63	3.8 to 3.905*	9.0 0.0	2 9	50 1	, E	SZ	운	S, P, G
Mercury	1/5	0.04 to 0.04	0.08	0.08	2 5		1,600	1,500	2	S, P, G
Nickel	1/5	8.315 to 8.47	3.88*	න ⁽	<u> </u>	120.63		¥Z.	2	60
Thallium	1/5	2.08 to 2.12		62.0	9 9	4 700		44.000	2	S, G
ŢĬ	5/2	10.395 to 10.58	C)	 ෆ් (⊋ •	8,4	550	480	2	ш
Vanadium	2/2	10.395 to 10.58		2.7	· (3 6	23 000	23.000	운	S, P, G
Zinc	2/2	4.155 to 4.23	7.1 to 11.05*	- - -	. Z. 6	0,300 469	1 600	1.600	£	S, P, G
Cyanide	2/5	2.08 to 2.12	0.04	0.04	ᅙ	3	oosii.			

Chemicals of Potential Concern in Surface Soil at SWMU 48 Table 8-5 (Continued)

Groups I and II RFA SV Report J.S. Naval Station Mayport, Florida

Notes from previous pages.

Value indicated by asterisk is the average of a sample and its duplicate. For duplicate samples having one nondetected values, 1/2 the contract required quantitation limit Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected values).

or contract required detection limit (CRDL) is used as a surrogate

The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected including values qualified with a "J"; it does not include those the background screening value is twice the average of detected concentrations for Inorganic analytes in background samples. Organic values are one times the mean of samples where the analyte was not detected ("U" or "UJ" quairfiers) and rejected ("R" qualifier)

detected concentration. Organic values are included for comparison purposes only.

EPA/903/R-93-001) was used for screening. Actual values are taken from the USEPA Region III RBC tables dated February 1995, and are based on a cancer risk of 10° and Source: USEPA. December, 1994. Soil Screening Guidance, Review Draft, USEPA, Office of Solid Waste and Ernergency Response, Washington, D.C., EPA/540/R-94/101. Values are taken from the Florida Department of Environmental Protection memorandum, Cleanup Goals for Military Sites In Florida, dated April 5, 1995. The values are for concentrations (RBC) for residential surface soil exposure per January 1993 guidance (Selecting Exposure Routes and Contaminants of Concern by Alsk-Based Screening, For all chemicals except the essential nutrients (calcium, iron, magnesium, potassium, and sodium), U.S. Environmental Protection Agency (USEPA) Region III risk based an adjusted hazard quotient of 0.1. For the essential nutrients, screening values were derived based on recommended daily allowances (RDAs).

the aggregate resident based on a cancer risk of 10° and the child resident based on a hazard quotient of 1.

Analytes were included or excluded from the risk assessment for the following reasons:

= the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at background locations. S = the maximum detected concentration did not exceed the screening concentration and will not be considered further.

G = the maximum detected concentration did not exceed the Florida cleanup goals and will not be considered further.

B = the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at background locat

F = the frequency of detection was less than 5 percent and professional judgment was used to exclude analyte from further study.

C = the analyte is a member of a chemical class that contains other chemicals of potential concern (CPCs) (i.e., carcinogenic polynuclear aromatic hydrocarbons

= the analyte was detected at less than 5 percent and is a CPC in more than one media.

= the maximum detected concentration did not exceed the USEPA proposed soil screening levets (SSLs), 9355.4-14FS, dated December 1994

The value is based on arsenic as a carcinogen.

The value is based on chromium hexavalent form. <u>.</u> 9

USEPA Office of Solid Waste and Emergency Response (OSWER) Directive No. 9355.4-12 revised interim recommended soil cleanup for Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Resource Conservation and Recovery Act (RCRA) sites.

The value is based on thallium as thallium sulfate.

Notes: The average of a sample and its duplicate is used for all table calculations.

Sample locations include:

Background sample locations include: MPT-B-SS1; MPT-B-SS2; MPT-B-SS3; MPT-B-SS4; MPT-B-SS5; MPT-B-SS6 Duplicate background sample locations include: MPT-B-SS1DUP

SWMU = solid waste management unit

µg/kg = micrograms per kilograms.
ND = not detected in any background samples. CPC = chemicals of potential concern.

mg/kg = milligrams per kilograms. PCBs = polychlorinated biphenyls. NA = not available.

	·	Cher	nicals of Pote	Table 8-6 Chemicals of Potential Concern in Subsurface Soil at SWMU 48	: 8-6 in Subsurfa	ce Soil at SW	MU 48			
				Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	RFA SV Report Il Station Florida					
Analyte	Frequency of Detection	Range of Reporting Limits	Range of Detected Concentrations	Mean of Detected Concentrations ³	Background Screening Value	Risk Based Screening Concentration ⁵	Superfund Proposed Soil Screening Levels	Cleanup Goals for the Military Sites In Florida ⁷	Analyte CPC? (Yes/No)	Reason
Volatiles (µg/kg)										
No analytes detected										
Semivoletiles (µg/kg)										
No analytes detected										
Pesticides/PCBs (µg/kg)	(6)									
No analytes detected										
Inorganics (mg/kg)						•	,	(,	,
Arsenic	2/2	2.12 - 2.56	0.68 - 2.5	1.6	6:0	°0.37	9.4	nî ¦		6
Barium	2/2	42.46 - 51.15	7 - 10.1	9.6	7.2	550	5,500	74,000		י א ע
Chromium	2/2	2.12 - 2.56	3.7 - 6.8	5.3	3.4	6E ₀₁	390	102201		S P D
Cohelt	1/2	10.62 - 12.79	0.95	0.95	1.04	470	A A	110,000	Š	6 0
1800	1/2	5.31 - 6.39	15.6	15.6	3.6	290	A A	72,000	2	O
peed .	2/2	0.64 - 0.77	3.5 - 4	3.8	2.8	11,400	400	1,000		ا ئە
Mercury	1/2	0.04 - 0.05	0.15	0.15	90:0	2.3	ន	480		ກຸ ເ ອີ ເ
Nickel	2/2	8.49 - 10.23	2 - 2.3	2.2	2	160	1,600	11,000		λ, 7.
Ţ.	2/2	10.62 - 12.79	2.6 - 3	2.8	5.4	4,700	A A	990'099		
Vanadium	2/2	10.62 - 12.79	2 - 6.4	4.2	3.2	55	550	4,800		5 G
Zinc	1/2	4.25 - 5.12	đ	10	4. 80.	2,300	23,000	550,000	€	ა შ
See notes on next page.	ige.									

Chemicals of Potential Concern in Subsurface Soil at SWMU 48 Table 8-6 (Continued)

Groups I and It RFA SV Report U.S. Naval Station Mayport, Florida

Value indicated by asterisk is the average of a sample and its duplicate. For duplicate samples having one nondetected values, 1/2 the contract required quantitation limit Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected values).

The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected including values qualified with a "J"; it does not include those samples where the analyte was not detected ("U" or "UJ" qualitiers) and rejected ("R" qualitier) or contract required detection limit (CRDL) is used as a surrogate.

The background screening value is twice the average of detected concentrations for inorganic analytes in background samples. Organic values are one times the mean of detected concentration. Organic values are included for comparison purposes only.

EPA/903/R-93-001) was used for screening. Actual values are taken from the USEPA Region III RBC tables dated February 1995, and are based on a cancer risk of 10° and concentrations (RBC) for residential surface soil exposure per January 1993 guidance (Selecting Exposure Routes and Contaminants of Concern by Alsk-Based Screening, For all chemicals except the essential nutrients (calcium, fron, magnesium, potassium, and sodium), U.S. Environmental Protection Agency (USEPA) Region III risk based an adjusted hazard quotient of 0.1. For the essential nutrients, screening values were derived based on recommended daily allowances (RDAs).

Source: USEPA. December, 1994. Soil Screening Guidance, Review Draft, USEPA, Office of Solid Waste and Emergency Response, Washington, D.C., EPA/540/R-94/101 Values are taken from the Florida Department of Environmental Protection memorandum, Cleanup Goals for Military Sites in Florida, dated April 5, 1995. The values are for

the Industrial Worker based on a cancer risk of 10° and the general worker based on a hazard quotient of 1.

S = the maximum detected concentration did not exceed the screening concentration and will not be considered further. Analytes were included or excluded from the risk assessment for the following reasons:

= the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at background locations.

= the frequency of detection was less than 5 percent and professional judgment was used to exclude analyte from further study. G = the maximum detected concentration did not exceed the Florida cleanup goals and will not be considered further.

B = the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at back

F = the frequency of detection was less than 5 percent and professional judgment was used to exclude analyte from fu

C = the analyte is a member of a chemical class that contains other chemicals of potential concern (CPCs) (i.e., carcinc

M = the analyte was detected at less than 5 percent and is a CPC in more than one media.

P = the maximum detected concentration did not exceed the USEPA proposed soil screening levels (SSLs), 9355.4-14Fi

= the analyte is a member of a chemical class that contains other chemicals of potential concern (CPCs) (i.e., carcinogenic polynuclear aromatic hydrocarbons [PAHs]).

= the maximum detected concentration did not exceed the USEPA proposed soil screening levels (SSLs), 9355.4-14FS, dated December 1994.

The value is based on arsenic as a carcinogen.

10 The value is based on chromium hexavalent form.

1) USEPA Office of Solid Waste and Emergency Response (OSWER) Directive No. 9355.4-12 revised InterIm recommended soil cleanup for Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Resource Conservation and Recovery Act (RCRA) sites.

Notes: The average of a sample and its duplicate is used for all table calculations.

Sample locations include:

Duplicate sample locations include:

Background sample locations include: MPT-B-BS01; MPT-B-BS04; MPT-B-BS05; MPT-B-BS06

Duplicate background sample locations include: MPT-B-BS1DUP

SWMU = solid waste management unit CPC = chemicals of potential concern.

ND = not detected in any background samples. mg/kg = milligrams per kilograms. NA = not available.

> µg/kg = micrograms per kilograms. PCBs = polychlorinated biphenyls.

Table 8-7 Water Quality Parameters for Groundwater at SWMU 48

Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida

		мауро	rt, Florida		
Analytical Batch No.:		M7505	M7515	M7492	
Sample Matrix:		Groundwater	Groundwater	Groundwater	
Sample Location:		MPT-8-MW08S	MPT-8-MW09S	MPT-8-MW10S	Secondary 1 Water Quality
Sample No.:		08MW008S	08MW009S	08MW010S	Criteria
Date Sampled:		09-JUL-94	09-JUL-94	09-JUL-94	
Common Name	Units	Conc.	Conc.	Conc.	Conc.
Alkalinity as CaCO ₃	mg/£	224	3,390	238	_
Ammonia nitrogen	mg/1	-	7.6	-	_
Chloride	mg/2	906	3,790	29.6	250,000
Color	АРНА	25	70	15	15
Hardness as CaCO₃	mg/£	224	7,180	300	-
Nitrate + nitrite nitrogen	mg/£	0.52	0.38	3.69	10,000
Oil and Grease	mg/ !	NA	NA	NA NA	_
Phosphorous P, total	mg/t	0.21	NA	0.58	-
Sulfate	mg/£	167	-	54.5	250,000
Sulfide	mg/1	-	15.1	-	_
Total dissolved solids	mg/£	NA	NA	NA	500
Total Kjeldahl nitrogen	mg/£	-	15.2	1.3	_
Total organic carbon	mg/#	NA	NA	NA NA	
pH	su	7	6.2	7.47	6.5 to 8.5

¹ Secondary Water Quality Criteria, Chapter 62-550.320, Florida Administrative Code (FAC).

Notes: Laboratory data validated at Naval Energy and Environmental Support Activity (NEESA) Level C.

SWMU = solid waste management unit.

Conc. = concentration.

CaCO₃ = calcium carbonate.

 mg/ℓ = milligrams per liter.

- = analyte not detected.

APHA = American Public Health Association.

NA = not available.

SU = standard units.

			6 6			
	rable 6-6 Organic Analytes Detected in Groundwater Samples at SWMU 48	nan s Detected in G	rable 6-6 n Groundwater Sar	mples at SWMU	48	
		Groups Land U.S. Na Maypo	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida			
Analyte Batch No.:	23921	23918	R8710	R8710	R8710	R8710
Sample Location:	MPT-8-MW07S	MPT-8-MW08S	MPT-8-MW08S	MPT-8-MW09S	MPT-8-MW10S	MPT-8-MW10S
Sample No.:	MPT8MW7S	MPT8MW8S	08MW008S	08MW009S	08MW010S	08MW010SDup
Date Sampled	01-FEB-93	01-FEB-93	. 09-JUL-94	26-AUG-94	09-SEP-94	09-SEP-94
VOCs (8240) (µg/t)						
2-Butanone	ţ	1	;	230 J	1	i
Acetone	;	ı	;	330 J	ŧ	;
Benzene	2 J	ŀ	1	;	ŀ	ı
Carbon disutlide	23	1	1	٦. 4	ı	i
Ethylbenzene	21	į	;	1	ł	ŀ
Methylene Chloride	ı	L 4	1	1	;	;
Toluene	1	:	ı	J.B.	;	1
SVOCs (8270) (µg/f)			<u>, a. a.</u>			
Fluorene		i	!	ŧ	1	;
2-Methylnaphthalene	120	;	1	ł	1	1
Naphthalene	130	:	i	ŀ	:	ı
2-Methylphenol	;	:	1	081	;	1
2,4-Dimethylphenol	!	1	;	180	1	1
3- & 4-Methylphenol (2)	;	;	t	480	;	1
Diethylphthalate	:	:	1	50 7	:	L
ory data validiup = duplicate = solid waste volatile orga	ated at Naval Energy and te of environmental samp management unit. nic compounds.	d Environmental Sup ble.	pport Activity (NEES	A) Level C.		
$\mu g/\ell = micrograms per liter.$ = analyte not detected.	liter.					
"J" = estimated value.						
SVOCs = semitogatile organic compounds.	garic compounds.					

MP-GI&H.RFA ASW.11.95

<u> </u>	Table 8-9 Inorganic Analytes Detected in Groundwater Samples at SWMU 48	Tab S Detected in G	Table 8-9 in Groundwater Sa	mples at SWMU	1 48	
		Groups Land L U.S. Nav Maybol	Groups I and II RFA SV Report U.S. Naval Station Maybort, Florida			
Analyte Batch No.:	23921	23918	R8710	R8710	R8710	R8710
Sample Location:	MPT-8-MW07S	MPT-8-MW08S	MPT-8-MW08S	MPT-8-MW09S	MP1-8-IMW10S	001 A404-0-1 JIM
Sample No.:	MPT8MW7S	MPT8MW8S	08MW008S	08MW009S	08MW010S	08MW010SDup
Date Sampled	01-FEB-93	01-FEB-93	09-JUL-94	26-AUG-94	09-SEP-94	09-SEP-94
Inorganics (µg/f)				-	a -	1.1.4
Arsenic	41.2	20.7	5.6 J		0 0	
Barium	67.6 J	28.1	8.4 J	L 211	G 7:0	2 1
Beryllium	1.6.1	ր 96:0	1	: !	: 00	27 100
Calcium	1	;	33,800	1,830,000	009'67	2
Chromium	40.9	36.8	!	t	ì	<u> </u>
Cobalt	L 7.11	7.1 J	ì	۱ 	!	
Jacob	15.4 3	3.4 J	;	i	1	l
ing.	;	1	ß 98	4,820	ı	1
- TO -	45.9	10.4	1	;	;	:
Lead	;	1	28,100	401,000	17,100	16,500
Magnesium		;	12.)	2,260	21.5	19.2
Manganese	1 6		ı	1	;	;
Mercury	0.29	!		;	1	;
Nickel	19.9 J	i	I	!	L 6:	1,2 J
Selenium		1	! 	•	1	;
Silver	2.1 J	1	: 6	4 040 000	24 100	23,100
Sodium	∀ Z	¥ Z	675,000	000'016'1	- T	;
Tin	ì	!	1	: 6		2]
Vanadium	60.3	48.0 J	1	, d) ;	;
Zinc	127	52.2	1	C C:0		1
ide	12.8	1		:	-	
aboratory data validi Suffix Dup = duplicat	ated at Naval Energy and Ele of environmental sample. management unit.	nd Environmental Sunple.	ipport Activity (NEE)	SA) Level C.		
rg/t = micrograms per liter.	liter.					
= analyte not detected	7					
NA = target analyte note analyzeu	anaryzeu.					

				Table 8.10					
		Chemic	Chemicals of Potential Concern in Groundwater at SWMU 48	oncern in Gro	undwater at S	WMU 48			, <u> </u>
			Groups U	Groups I and II RFA SV Report U.S. Naval Station Mayport, Florida	pod				
Analyte	Frequency of Detection¹	Range of Reporting Limits	Range of Detected Concentrations ²	Mean of Detected Concentrations	Background Screening Concentration ⁴	Risk Based Screening Concentration ⁵	Florida Guldance Concentration [®]	Analyte CPC? (Yes/No)	Reason7
Volstfes (µg/I)									
2-Butanone	1/3	10 - 20	230 - 230	230	Q	190	4200	Yes	
Acetone	1/3	10 - 20	330 - 330	330	Q	370	700	2	<u>ව</u> ව්
Carbon disulfide	1/3	5 - 10	4 - 4	4	_	2.1	700	Yes	•
Toluene	1/3	5 - 10	3 - 3	ಣ	Ş	1,600	40	2	o v
Semivolatiles (µg/f)								;	
2,4-Dimethylphenof	1/3	10 - 80	180 - 180	180	9	23	400	Yes	
2-Methylphenol	1/3	10 - 80	180 - 180	180	2	180	350	욷	တ်
3- & 4-Methylphenol	1/3	10 - 80	480 - 480	480	29	81	35	Yes	
Diethylphthalate	1/3	10 - 80	20 · 20	8	2	2,900	2,600	S	ල ග්
Pesticides/PCBs (µg/f)									
No Analytes Detected									•
Inorganica (ug/1)							Ç	1	0
Arsenic	3/3	0.6 - 10	0.6 - 5.6	2.6	4 .	0.038	<u></u>	2 ;	9
Barium	9/3	0.4 - 200	6,25* - 112	42.2	10.2	260	2,000	Ž	ฮ
Calcium	3/3	41.7 - 5,000	33,800 - 1,830,000	647,383	170,450	1,055,398	V.	Yes	
İron	2/3	9.1 - 100	88 - 4,820	2,454	2,076	13,267	300	∀ 93	
Magnesium	3/3	31.4 - 5,000	16,800* - 401,000	148,633	21,234	118,807	Y Y	Yes	
Manganese	3/3	0.6 - 15	12 - 2,260	764	185.8	18	20	Yes	
Selenium	1/3	0.6 - 30	1.55*	1 .5	11.8	18	¥ V	£	60
Sodium	3/3	14.4 - 5,000	23,600* - 1,810,000	836,200	18,624	396,022	160,000	Yes	
Vanadium	2/3	1.5 - 50	2.5* - 8.3	5.4	10.6	56	49	2	6 0
Znc	1/3	1 - 20	16.5	16.5	20	1,100	5,000	2	8
See notes on next page.									

Chemicals of Potential Concern in Groundwater at SWMU 48 Table 8-10 (Continued)

Groups 1 and II RFA SV Report U.S. Naval Station Mayport, Florida

Analyte	Frequency of Detection ¹	Range of Reporting Limits	Pange of Detected Detected Screening Screening Guidance CPC? Concentrations Concentration Concentration (Yes/No)	Mean or Detected Concentrations	Background Risk based Screening Screening Concentration* Concentration*	Risk Based Screening Concentration ⁵	Guidance Concentration	CPC? Reason? (Yes/No) led values).	Reason7
1 Frequency of detection is the number of samples in wi	the number o	-	ich the analyte was detected divided by the total number of samples analyte was detected detection	stected divided by	1/2 the contract	t required quantitat	ion limit or contrac	ct required d	etection

Value indicated by asterisk is the average of a sample and its duplicate. For nondetected values, 1/2

The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected including values qualified with a "J"; it does not Include those samples where the analyte was not detected ("U" or "UJ" qualifiers) and rejected ("R" qualifier).

concentrations (RBC) for tap water per January 1993 guidance (Selecting Exposure Routes and Contaminants of Concern by Risk-Based Screening, EPA/903/R-93-001) was For all chemicals except the essential nutrients (calcium, iron, magnesium, potassium, and sodium), U.S. Environmental Protection Agency (USEPA) Region III risk based used for screening. Actual values are taken from RBC Table dated February 1995, and are based on a cancer risk of 10° or an adjusted hazard quotient of 0.1. For the The background screening value is twice the average of detected concentrations for inorganic analytes in background samples.

essential nutrients, screening values were derived based on recommended daily allowances (RDAs). Florida Department of Environmental Protection Groundwater Guidance Concentrations (June 1994)

Analytes were included or excluded from the risk assessment for the following reasons:

S = the maximum detected concentration did not exceed the screening concentration and will not be considered further.

G = the maximum detected concentration did not exceed the Florida cleanup goals and will not be considered further.

B = the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at backgr

F = the frequency of detection was less than 5 percent and professional ludgment was used to exclude analyte from furth

= the maximum detected concentration did not exceed twice the arithmetic mean of detected concentrations at background locations.

= the analyte is a member of a chemical class that contains other chemicals of potential concern (CPCs) (i.e., carcinogenic polynuclear aromatic hydrocarbons [PAHs]). = the frequency of detection was less than 5 percent and professional judgment was used to exclude analyte from further study.

= the maximum detected concentration did not exceed the USEPA proposed soil screening levels (SSLs), 9355.4-14FS, dated December 1994. = the analyte was detected at less than 5 percent and is a CPC in more than one media.

The value is based on arsenic as a carcinogen.

10 Treatment technology action limit for drinking water distribution systems per "National Primary Drinking Water Regulations" 40 CFR 141 as amended in 57 FR 41345, August

The values is based on thallium as thallium sulfate.

The average of a sample and its duplicate is used for all table calculations. Notes:

Sample locations include:

Background sample locations include: 01MW001, 08MW005S, 08MW001S, 0SMW001R, 8MW5S, MPT-1-MW1-1, MPT-S-1-1, AND S1

CPCs = chemicals of potential concern.

ug/t = micrograms per liter. ND = not detected in any background samples.

NA = not available.

PCBs = polychlorinated biphenyls.

groundwater collected from the monitoring wells [Durfor and Becker, 1964]). The highest value obtained for hardness was for the groundwater sample from monitoring well MPT-8-MW09S, which is hydraulically upgradient of SWMU 48 (Figure 7-2).

Target analytes detected in the groundwater samples consisted of 7 VOCs (2-butanone, acetone, benzene, carbon disulfide, ethylbenzene, methylene chloride, and toluene), 7 SVOCs (fluorene, 2-methylnaphthalene, naphthalene, 2-methylphenol, 2,4-dimethylphenol, 3- and 4-methylphenol (2), and diethylphthalate) (Table 8-8), and 20 inorganics (arsenic, barium, beryllium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, selenium, silver, sodium, tin, vanadium, zinc and cyanide) (Table 8-9).

VOCs and SVOCs detected in monitoring wells MPT-8-MW07S and MPT-8-MW09S are not related to a release from SWMU 48. Monitoring well MPT-8-MW07S is hydraulically side gradient to SWMU 48 and not in a flow path that would intercept contaminants from this SWMU. Monitoring well MPT-8-MW09S is hydraulically upgradient from SWMU 48.

Nine of the inorganic analytes (beryllium, chromium, cobalt, copper, lead, mercury, nickel, silver, and cyanide) detected in groundwater samples collected in 1993 were not detected in samples collected in 1994. This may be a result of using different sampling methods. The groundwater sampling event in 1993 used bailers to purge stagnant water within the well casing and collect a groundwater sample. This method generally produces water samples that are turbid and contain silt or clay materials. Preserving the samples with nitric acid to a pH of 2 Standard Units leaches metals from the sediment. The inorganic target analytes detected in 1993 that were not detected in 1994 are likely attributable to turbid groundwater samples.

The purging and sampling methodology used in the 1994 sampling event was a low flow method that generally does not produce a turbid groundwater sample. Samples produced by this method are generally more representative of the groundwater in an aquifer zone.

8.4 PRELIMINARY RISK EVALUATION.

Surface Soil. None of the VOCs or SVOCs detected in the surface soil samples exceeded the bench mark values. Only one inorganic analyte, arsenic, exceeded the bench mark values. Arsenic was not detected in surface soil background samples. Concentrations of arsenic exceeded the USEPA Region III RBC $(0.37 \, \text{mg/kg})$ and the proposed Superfund SSL $(0.4 \, \text{mg/kg})$ in two samples and a duplicate. One of the samples (MPT-48-SSO5) contained arsenic at a concentration of $0.7 \, \text{mg/kg}$ which is the same as the Florida cleanup goal.

<u>Subsurface Soil</u>. VOCs, SVOCs, pesticides, and PCBs were not detected in the subsurface soil samples. One of two samples exceeded the background screening value (0.9~mg/kg) for arsenic. Concentrations of arsenic exceeded the USEPA Region III RBC and the proposed Superfund SSL in the two subsurface soil samples. The FDEP cleanup goal (3~mg/kg) for an industrial worker was not exceeded.

<u>Groundwater</u>. Analytical results from 1993 were not used in the preliminary risk evaluation for the following reasons: monitoring well MPT-8-MW07S is not in a hydraulically downgradient position relative to SWMU 48, the methylene chloride detected in the 1993 groundwater sample from monitoring well MPT-8-MW08S is

likely a laboratory derived contaminant, and the inorganic results from this sampling event are biased high because of turbid groundwater samples.

Two VOCs (2-butanone and carbon disulfide) and two SVOCs (2,4-dimethylphenol and 3- & 4-methylphenol) detected in monitoring well MPT-8-MW09S exceeded bench mark values. Concentrations of 2-butanone (280 $\mu g/l$) and carbon disulfide (4 $\mu g/l$) exceeded their respective USEPA Region III RBC (190 and 2.1 $\mu g/l$), but not the FDEP guidance values (4,200 and 700 $\mu g/l$). One of the SVOCs (2,4-dimethylphenol, 180 $\mu g/l$) exceeded the USEPA Region III RBC (73 $\mu g/l$), but not the FDEP Guidance value (400 $\mu g/l$) and the other SVOC (3- & 4-methylphenol, 480 $\mu g/l$) exceeded the USEPA Region III RBC (18 $\mu g/l$) and the FDEP guidance value (35 $\mu g/l$). It should be noted that these organic compounds were detected in samples from monitoring well MPT-8-MW09S, which is hydraulically upgradient from SWMU 48; therefore, these analytes are not attributable to a release from SWMU 48.

Five of the inorganic analytes (calcium, iron, magnesium, manganese, and sodium) exceeded background screening values and bench mark values in the groundwater sample collected from monitoring well MPT-8-MW09S. Only samples from one other monitoring well, MPT-8-MW08S, contained concentrations of magnesium and sodium that exceeded the background screening values and bench mark values.

The concentrations of calcium, iron, magnesium, manganese, and sodium detected in the groundwater sample from monitoring well MPT-8-MW09S and background and bench mark values exceeded are as follows.

Analyte	Concentration $(\mu g/l)$	Background Screening Value $(\mu g/\ell)$	USEPA Region III RBC (μg/l)	FDEP Cleanup Goal (µg/l)
Calcium	1,830,000	170,450	1,055,398	NA
Iron	4,820	2,076	13,267	300
	401,000	21,234	118,807	NA
Magnesium	2,260	185.8	18	50
Manganese Sodium	1,810,000	18,624	396,022	160,000

Notes: $\mu g/\ell$ = micrograms per liter. NA = no bench mark value established.

Magnesium was detected in the groundwater sample collected from monitoring well MPT-8-MW08S at a concentration (28,100 $\mu g/l$) that exceeded the background screening value, but not the USEPA Region III RBC. The concentration of sodium detected in the groundwater sample collected from monitoring well MPT-8-MW08S exceeded the background screening value and the USEPA Region III RBC.

It should be noted that the inorganic analytes detected in groundwater samples collected from monitoring well MPT-8-MW09S, which is hydraulically upgradient from SWMU 48, are not attributable to a release from SWMU 48. The concentration of magnesium and sodium detected in the groundwater sample collected from monitoring well MPT-8-MW08S is likely attributable to the proximity of the well to the St. Johns River or is due to the well being hydraulically downgradient from the same source of contaminants detected in monitoring well MPT-8-MW09S samples.

8.5 CONCLUSIONS AND RECOMMENDATIONS.

8.5.1 Conclusions

Surface and Subsurface Soil. None of the VOCs or SVOCs detected in the surface soil samples exceeded the bench mark values. VOCs, SVOCs, pesticides, and PCBs were not detected in the subsurface soil samples. Only one inorganic analyte, arsenic, exceeded the bench mark values in both the surface and subsurface soil samples. Concentrations of arsenic in the surface soil samples exceeded the USEPA Region III RBC and proposed Superfund SSL and was equal to the FDEP cleanup goal. One of the subsurface soil samples contained arsenic at a concentration that exceeded the background screening value. Concentration of arsenic in the subsurface soil samples also exceeded the USEPA Region III RBC and the proposed Superfund SSL, but not the FDEP cleanup goal for an industrial worker.

Arsenic was detected in surface and subsurface soil samples at concentrations that exceeded bench mark values, which are based on a lifetime excess cancer risk of 10^{-6} . However, the potential risk associated with concentrations of arsenic that were detected is within a range (10^{-4} to 10^{-6}) that is considered by USEPA to be protective of human health (40 CFR Part 300) (see Tables C-9 and C-10, Appendix C).

Groundwater. VOCs and SVOCs were detected in a monitoring well (MPT-8-MW09S) located hydraulically upgradient from SWMU 48; therefore, these analytes are not attributable to a release from SWMU 48. However, these analytes did exceed bench mark values. Five inorganic analytes (calcium, iron, magnesium, manganese, and sodium) also exceeded background screening values and bench mark values in the groundwater sample collected from monitoring well MPT-8-MW09S. Only samples from one other monitoring well, MPT-8-MW08S, contained concentrations of magnesium and sodium that exceeded the background screening values and benchmark values. The inorganic analytes detected in monitoring well MPT-8-MW09S, which is hydraulically upgradient from SWMU 48, are not attributable to a release from SWMU 48. The concentrations of magnesium and sodium detected in the groundwater sample collected from monitoring well MPT-8-MW08S is likely attributable to the proximity of the well to the St. Johns River or is due to its location hydraulically downgradient from the same source of contaminants detected in monitoring well MPT-8-MW09S samples.

- 8.5.2 <u>Recommendations</u> SWMU 48 is recommended for no further investigation at this time based on the following rationale.
- None of the VOCs or SVOCs detected in the surface soil samples exceeded the bench mark values.
- Pesticides and PCBs were not detected in the surface soil samples.
- VOCs, SVOCs, pesticides, and PCBs were not detected in the subsurface soil samples.
- Only one inorganic analyte, arsenic, exceeded the bench mark values in both the surface and subsurface soil samples.
- The concentrations of arsenic detected in surface and subsurface soil samples exceeded human health based risk bench mark values, which represent a lifetime excess cancer risk of 10^{-6} . However, the potential risk associated with the concentrations of arsenic that were detected is within a range $(10^{-4}$ to $10^{-6})$ that is considered by USEPA to be protective of human health (40 CFR 300, 1990).

- VOCs, SVOCs, and inorganics were detected in a sample from monitoring well (MPT-8-MW09S) located hydraulically upgradient from SWMU 48; therefore, these analytes are not attributable to a release from SWMU 48. However, these analytes did exceed bench mark values.
- The concentrations of magnesium and sodium detected in the groundwater sample collected from monitoring well MPT-8-MWO8S are likely attributable to the proximity of the well to the St. Johns River or are due to its location hydraulically downgradient from the same source of contaminants detected in monitoring well MPT-8-MWO9S samples.
- The default assumptions used in estimating risk based bench mark concentrations may not be representative and likely overstate the specific exposure present at the site (i.e., underestimate the concentration that would result in a lifetime excess cancer risk of 10⁻⁶). Because the chemicals were detected in only one or two media (i.e., soil and or groundwater) all of the exposure pathways and assumptions used to estimate the bench mark concentrations are not relevant. Therefore, the concentrations may exceed the bench mark values (USEPA, 1994, USEPA, 1995, and FDEP, 1995) but actually result in a lower excess cancer risk than 10⁻⁶.

9.0 SUMMARY

9.1 GROUP I SWMUS.

9.1.1 SWMU 26, Landfill C SWMU 26 is recommended for no further investigation at this time based on analytical results of soil and groundwater samples.

<u>Soil Samples</u>. Pesticides and PCBs were not detected in surface or subsurface soil samples at SWMU 26. VOCs (acetonitrile, chloroform, 2-butanone, toluene, and xylenes) and SVOCs (di-n-butylphthalate and bis(2-ethylhexyl)phthalate) were detected in surface and subsurface soil samples at concentrations less than human health risk based benchmark values. Inorganic analytes (arsenic and beryllium) were detected in surface and subsurface soil samples at concentrations within a range of potential risk considered by USEPA to be protective of human health.

Groundwater Samples. VOCs, pesticides, PCBs, or cyanide were not detected in the groundwater samples collected from the SWMU 26 monitoring wells. The SVOCs detected in groundwater samples do not exceed human health based benchmark values. Inorganic analytes (antimony, magnesium, manganese, sodium, and thallium) were detected in groundwater samples at concentrations that exceed human health benchmark values; however, these same analytes, with the exception of thallium, were detected in groundwater samples collected from monitoring wells located hydraulically upgradient from the SWMU. SWMU 26 does not appear to be the source of the detected analytes (antimony, magnesium, manganese, sodium, and thallium). Groundwater in the vicinity of SWMU 26 is being assessed as part of the NAVSTA Mayport RFI for Group I landfill SWMUs 2, 3, 4, and 5.

9.1.2 SWMU 49, Flight Line Retention Ponds An RFI focused toward ecological risk assessment or interim measures to remove sediment in the ponds is recommended for SWMU 49. The focused RFI should include ecological diversity and aquatic and sediment toxicity testing to assess whether to place SWMU 49 on the no further action list, or establish a monitoring program to assess whether continued discharge from the industrial area is adversely affecting the ecology of the two ponds or conduct a corrective measures study. SWMU 49 is a stormwater retention pond that discharges to a Class III marine water body. SWMU 49 has restricted access and is not likely to be used for recreational fishing. However, it is common to see birds foraging at SWMU 49.

The following provides the rationale for this decision based on analytical results of surface water and sediment samples.

Surface Water Samples. VOCs, SVOCs, pesticides, and PCBs were not detected in surface water samples collected from SWMU 49. Eight inorganic analytes were detected at concentrations that exceeded background screening criteria. Concentrations of six inorganic analytes (arsenic, beryllium, lead, mercury, nickel, and zînc) exceeded AWQC for protection of aquatic life (acute). The Class III marine surface water standard was exceeded by concentrations of five inorganic analytes (beryllium, lead, mercury, nickel, and zinc).

Sediment Samples. PCBS have not been detected in sediment samples collected at SWMU 49. VOCs, SVOCs, pesticides, and inorganic analytes have been detected in the sediment samples. Currently, there are no ecological benchmark criteria to assess four of the VOCs (acetone, acetonitrile, 2-butanone, and carbon disulfide), the SVOC butylbenzylphthalate and pesticide heptachlor detected in the sediment samples.

The SVOCs bis(2-ethylhexyl)phthalate, pyrene, fluoranthene, 2-methylnaphthalene and naphthalene were detected at concentrations that exceed ecological bench mark criteria. The pesticides chlordane, 4,4'-DDD, and 4,4'-DDE were detected at concentrations that exceed ecological bench marks. The inorganics arsenic, cadmium, copper, lead, mercury, nickel, silver, and zinc also exceeded ecological bench marks.

Comparison of organic compounds and metals detected in the sediment samples to the background screening and bench mark values suggests that sediment in the SWMU 49 western and eastern ponds may be adversely impacted by discharge of stormwater runoff from the industrial areas served by the stormwater retention ponds. This is based on the detection of multiple organic and inorganic target analytes at concentrations where adverse biological effects are beginning to be observed (i.e., at concentrations greater than the ER-M and PEL).

9.1.3 SWMU 50, East and West Dredge Spoil Disposal Areas

Based on the analytical results, ecological diversity measurements and aquatic and sediment toxicity testing appear to be warranted as part of an RFI focused towards conducting an ecological risk assessment. However, before a commitment is made to the focused ecological risk assessment, the SWMU 50 analytical results should be assessed along with the results of the RFI being conducted for the Landfill SWMUs 2, 3, 4, and 5 which are located beneath and adjacent to SWMU 50. Recommendations pertaining to the need for a focused ecological risk assessment at SWMU 50 will be made in the RFI report for the Group I SWMUs

The Navy plans to remove some of the dredge material to provide capacity for future maintenance dredging of Mayport Turning Basin. Existing data and data obtained from a focused ecological risk assessment, if required, and corrective measures study, if required, could provide an adequate basis to evaluate use, if any, of the dredge material such as for asphalt or concrete mix for roads.

The possible need for a focused ecological risk assessment is based on the following rationale.

Because bench mark values have not been established by Long and others (1993) and MacDonald (1994) for benzo(k)fluoranthene, butylbenzylphthalate, di-noctylphthalate, antimony, beryllium, selenium, and cyanide, they were considered CPCs.

Target analytes that exceeded the TEL were benzo(a)anthracene, benzo(a)pyrene, chrysene, and pyrene. Target analytes that exceeded the ER-L and TEL were fluoranthene, cadmium, and lead. None of the target analytes exceeded values for the ER-M or PEL.

Concentrations of benzo(a)pyrene and antimony exceed FDEP residential soil cleanup goals and concentrations of beryllium exceeded residential and industrial worker soil cleanup goals.

9.1.4 SWMU 56, Building 1552 Accumulation Area SWMU 56 is recommended for no further investigation at this time based on analytical results of soil and groundwater samples.

<u>Soil Samples</u>. PCBs were not detected in surface or subsurface soil samples. Eight VOCs (acetone, acetonitrile, carbon disulfide, trichlorofluoromethane, chloroform, 2-butanone, 4-methyl-2-butanone, and toluene), two SVOCs (di-n-butyl-phthalate and bis(2-ethylhexyl)phthalate), and one pesticide (4,4'-DDE) were detected in surface soil samples at concentrations less than human health benchmark values. One VOC (acetone) and one pesticide (4,4'-DDE) were detected in subsurface soil samples at concentrations less than human health benchmark values.

Inorganic analytes (arsenic, beryllium, cadmium, and chromium) were detected in surface soil samples at concentrations within a range of potential risk considered by USEPA to be protective of human health. Inorganic analytes (arsenic, barium, lead, vanadium, and zinc) detected in subsurface soil samples did not exceed the human health benchmark values.

Groundwater Samples. The VOC (acetone) detected in the groundwater sample from SWMU 56 did not exceed human health benchmark values. Acetone is a contaminant that may be related to decontamination of the sampling equipment or the analytical laboratory. Magnesium and sodium were detected at concentrations that exceeded their respective background screening values; however, the concentrations were less than their USEPA Region III RBCs. The concentration of sodium exceeded the FDEP guidance concentration.

9.2 GROUP II SWMUS.

9.2.1 SWMU 19, Naval Aviation Depot (NADEP) Blasting Area SWMU 19 is recommended for no further investigation at this time. The following provides the rationale for this decision based on analytical results of soil and sediment samples and a sample of the Black Beauty sand blasting media.

<u>Soil Samples</u>. PCBs were not detected in either the surface or subsurface soil samples. VOCs were not detected in the surface soil samples and SVOCs were not detected in the subsurface soil samples.

Target analytes detected in the surface soil samples consist of 2 SVOCs, 2 pesticides, and 11 inorganic analytes. Target analytes detected in the subsurface soil samples consist of 1 VOC, 3 pesticides, and 10 inorganic analytes.

None of the VOCs, SVOCs, or pesticides detected in the surface or subsurface soil samples exceeded the human health benchmark values. Inorganic analytes (arsenic and beryllium) were detected in surface and subsurface soil samples at concentrations within a range of potential risk considered by USEPA to be protective of human health. None of the inorganic analytes detected in the subsurface soil samples exceeded the benchmark values.

<u>Sediment Samples</u>. VOCs, SVOCs, pesticides, and PCBs were not detected in the sediment samples. None of the eight inorganic analytes detected in the two sediment samples exceeded background screening values.

<u>Black Beauty</u> Samples. The result of the TCLP analysis indicate that the Black Beauty sand blasting media does not meet the definition of an RCRA-characteristic hazardous waste.

9.2.2 SWMU 28, Defense Reutilization and Marketing Office Yard SWMU 28 is recommended for no further investigation at this time. The following provides the rationale for this decision based on analytical results of soil and groundwater samples.

<u>Soil Samples</u>. Pesticides and PCBs were not detected in surface or subsurface soil samples. The three VOCs (acetone, methylene chloride, and xylenes) detected in the surface soil samples did not exceed human health based screening values.

The SVOC 4-chloro-3-methylphenol was determined to be a chemical of potential concern in surface soil samples, because human health benchmark criteria are not currently available. None of the other PAH compounds detected in the surface soil samples exceeded human health benchmark values.

Six SVOCs (benzo(a)anthracene, benzo(b)perylene, benzo(g,h,i)perylene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene) were determined to be chemicals of potential concern in subsurface soil samples. However, none of the PAH compounds were detected in the surface or subsurface soil samples at concentrations that exceed the FDEP cleanup goals.

Inorganic analytes (arsenic and beryllium) were detected in surface and subsurface soil samples at concentrations within a range of potential risk considered by USEPA to be protective of human health.

Groundwater Samples. Only one inorganic target analyte, thallium, was determined to be a chemical of potential concern. Thallium was detected as a single occurrence and exceeded the USEPA Region III RBC, but not the FDEP Guidance Concentration. Thallium was not detected in samples, therefore, SWMU 28 is not likely groundwater sample.

9.2.3 SWMU 48 Former Chemistry Laboratory Accumulation Area SWMU 48 is recommended for no further investigation at this time. The following provides the rationale for this decision based on groundwater samples.

<u>Soils</u>. Pesticides and PCBs were not detected in surface soil samples. None of the VOCs or SVOCs detected in the surface soil samples exceeded human health benchmark values. VOCs, SVOCs, pesticides, and PCBs were not detected in subsurface soil samples. One inorganic analyte (arsenic) was detected in surface and subsurface soil samples at concentrations within a range of potential risk considered by USEPA to be protective of human health.

Groundwater. VOCs and SVOCS were detected in a sample from a monitoring well (MPT-8-MW09S) located hydraulically upgradient from SWMU 48. These analytes are not attributable to a release from SWMU 48.

Five of the inorganic analytes (calcium, iron, magnesium, manganese, and sodium) exceeded background screening values and benchmark values in the groundwater sample collected from monitoring well MPT-8-MW09S. Only samples from one other monitoring well, MPT-8-MW08S, contained concentrations of magnesium and sodium

that exceeded the background screening values and benchmark values. The concentrations of magnesium and sodium detected in the groundwater sample collected from monitoring well MPT-8-MW08S is likely attributable to the proximity of the site to the St. Johns River or its location hydraulically downgradient from the same source of contaminants detected in monitoring well MPT-8-MW09S samples.

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APPENDIX A TARGET ANALYTE LIST

APPENDIX A: ANALYTICAL PROGRAM

The analytical program for the RCRA Corrective Action Program at NAVSTA Mayport addresses analytes selected from both the 40 CFR 264, Appendix IX, groundwater monitoring list and the USEPA Contract Laboratory Program target compound list and target analyte list (Tables A-1 through A-4). Tables A-1 through A-4 provide a summary of target analytes in both lists, current target analytes, and target analytes that have been detected in previous investigations at NAVSTA Mayport. Gas chromatography and mass spectroscopy (GC/MS) methods are used for analyses of environmental and QA/QC samples. Specifically, USEPA Method 8240 is used to analyze for VOCs (Table A-1) and USEPA Method 8270 is used to analyze for SVOCs (Table A-2). USEPA Method 8080 is used to analyze for chlorinated pesticides and Organophosphorus pesticides (USEPA 8140) and chlorinated PCBs (Table A-3). herbicides (USEPA Method 8150) are target analytes only at sites known to be used for pesticide storage, handling, and mixing. Selected metals are analyzed by inductively coupled plasma (ICP), graphite furnace atomic absorption (GFAA), or cold vapor atomic absorption (CVAA), as appropriate (e.g., USEPA Methods 6010, 7420, or 7470) (Table A-4). USEPA Method 9010 is used to analyze for cyanide.

The analytical data packaging for reporting VOCs, SVOCs, pesticides, PCBs, and inorganics is NEESA Level C.

The number of field and laboratory QA/QC samples collected is in accordance with the generic Quality Assurance Program Plan (QAPP), Appendix A, Volume II, of the NAVSTA Mayport RFI Workplan (ABB-ES, 1991). Field and laboratory QA/QC samples are analyzed by the same analytical methods as the associated environmental samples. The following presents a brief description of field QA/QC samples.

- <u>Duplicates</u>. Duplicates of soil, waste, groundwater, surface water, and sediment samples are submitted for analyses at a rate of 10 percent of the samples analyzed, or a minimum of 1 per event for each media sampled.
- <u>Trip Blanks</u>. A trip blank is included with each shipment of samples scheduled for VOC analysis and analyzed with other VOC samples.
- Equipment Rinsate Blanks. A minimum of one equipment rinsate (sampler) blank per week per media is collected from each piece of equipment used in the sampling event (bailers, sampling pumps, and/or tubing). If equipment is decontaminated in the field, then a minimum of two equipment rinsate blanks are collected each day. One is collected at the initiation of daily sampling activities and the other at the completion.
- <u>Field Blanks</u>. A field blank or source water blank is collected at a rate of at least one blank per field event or every 10 days, whichever is greater. The source blank monitors water used by the field operations for daily operations.

Table A-1

Gas Chromatograph and Mass Spectrometer Volatiles Comparison of Target Analytes From Resource Conservation and Recovery Act Appendix IX Groundwater Monitoring List and U.S. Environmental Protection Agency Contract Laboratory Program Target Compound List

O	Appendix IX	CLP TCL	Currently A Target Analyte	Detected at NAVSTA Mayport
Volatile Organic Compounds	 '^-+	- 102 -	<u> </u>	
Chloromethane	- 	- ; -		
Bromomethane	 	- 		T
/inyl chloride				
Chloroethane	 			<u> </u>
Methylene chloride	 ' 			
Acetone	 ' 			
Carbon disulfide	 			+
Trichlorofluoromethane				+
1,1-Dichloroethene				
1,1-Dichloroethane				
.2-Dichloroethene (total)				
Chloroform				
1,2-Dichloroethane				
2-Butanone			/	
1,1,1-Trichloroethane	/			<u> </u>
Carbon tetrachloride	/	J		
Bromodichloromethane	1			/
1.2-Dichloropropane	1			
cis-1,3-Dichloropropene	1	/	/	
Trichloroethene	1	· /	1	
Benzene	1	1		
Dibromochloromethane	1	1	/	/
1,1,2-Trichloroethane	/	/	1	
trans-1,3-Dichloropropene	/	/	/	<u> </u>
2-Chloroethylvinylether			. /	
Bromoform	1	1.	/	
2-Hexanone	/	1	1	
Tetrachioroethene	/	· /	/	
1,1,2,2-Tetrachloroethane	/	/	/	/
Toluene	1	1	/	/
Chlorobenzene	/	/		/
Ethylbenzene	7	1	1	

Table A-1 (Continued)

Gas Chromatograph and Mass Spectrometer Volatiles Comparison of Target Analytes From Resource Conservation and Recovery Act Appendix IX Groundwater Monitoring List and U.S. Environmental Protection Agency Contract Laboratory Program Target Compound List

Group I and II RFA/SV Report U.S. Naval Station Mayport, Florida

Volatile Organic Compounds	Appendix IX	CLP TCL	Currently A Target Analyte	Detected at NAVSTA Mayport
Styrene	/	1	/	
Xylenes (total)			<u></u> .	
4-Methyl-2-pentanone	1	1		
1,3-Dichlorobenzene	1			<u> </u>
1,4-Dichlorobenzene	1			
1,2-Dichlorobenzene	_/			
Acetonitrile	/			
Acrolein	1		1	/
Acrylonitrile	1		✓	
Chloroprene	/		1	<u> </u>
3-Chloropropene	1			<u> </u>
1,2-Dibromo-3-chloropropane	1		/	/
1,2-Dibromoethane	1		1	
Dibromomethane	1		1	
1.4-Dioxane	1		<u> </u>	
Propionitrile	1			
Ethyl Methacrylate	1		1	
lodomethane	1		/	
isobutyl alcohol	1		•	
Methacrylonitrile	1			
Methyl methacrylate	1		<i>,</i>	
Vinyl acetate	1		•	
Trans-1.4-dichloro-2-butene			1	
Dichlorodifluoromethane	1			
Pentachioroethane	1		<i>J</i>	
1.1.1,2-Tetrachioroethane	1		· ·	
1,2,3-Trichloropropane		7	· ·	1

Appendix IX = 40 Code of Federal Regulations Part 264, Appendix IX, Ground Water Monitoring List. Analytical Methodology for Appendix IX is <u>Test Methods for Evaluation of Solid Wastes</u>, US EPA, SW 846, Third Edition, November, 1986. (And Proposed Update Package, 1989.)

CLP TCL = U.S. Environmental Protection Agency Contract Laboratory Program, <u>Statement of Work for Organic Analysis</u>, <u>Multi-Media</u>, <u>Multi-Concentration</u>, Exhibit C, Target Compound List and Contract Required Quantitation Limits, 0LM01.0, July 1993.

Table A-2

Gas Chromatograph and Mass Spectrometer Semivolatiles Comparison of Target Analytes From Resource Conservation and Recovery Act Appendix IX Groundwater Monitoring List and U.S. Environmental Protection Agency Contract Laboratory Program Target Compound List

Semivolatile Organic Compounds	Appendix IX	CLP TCL	Currently A Target Analyte	Detected at NAVSTA Mayport
Acid Extractables				
Phenoi	/	•		/
2-Chiorophenol	/		1	
2-Methylphenol	/		· ·	,
4-Methylphenol	1	•	1	/
2-Nitrophenol	/	1		
2,4-Dimethylphenol	1		,	
2,4-Dichlorophenol	1		· ·	
4-Chloro-3-methylphenol	1	/	1	<u> </u>
2,4,6-Trichlorophenol	1		/	
2,4,5-Trichlorophenol	1	1	/	
2,4-Dinitrophenol	1	1	1	
4-Nitrophenol	1	1	/	<u> </u>
2-Methyl-4,6-dinitrophenol	1	1	1	<u></u>
Pentachiorophenol	1	1	1	/
2,3,4,6-Tetrachiorophenol	/		/	<u> </u>
2.6-Dichlorophenol	/			
Benzoic Acid			/	/
Base-Neutral Compounds				
1,3-Dichlorobenzene¹	1	/	/	<u> </u>
1,4-Dichlorobenzene ¹	1	1	/	
1,2-Dichlorobenzene¹	1	1	/	<u> </u>
Hexachioroethane	1	1	/	
1,2,4-Trichlorobenzene	/	1	/	
Naphthalene ²	/	1	/	
Hexachlorobutadiene	1	/	/	
Hexachlorocyclopentadiene	1	1	·	

Table A-2 (Continued)

Gas Chromatograph and Mass Spectrometer Semivolatiles Comparison of Target Analytes From Resource Conservation and Recovery Act Appendix IX Groundwater Monitoring List and U.S. Environmental Protection Agency Contract Laboratory Program Target Compound List

	Mayport, F	Torida		
Semivolatile Organic Compounds	Appendix IX	CLP TCL	Currently A Target Analyte	Detected at NAVSTA Mayport
<u> </u>	/	1	1	
2-Chloronaphthalene Acenaphthylene ²	 		1	<u>.</u>
	+		/	1
Acenaphthene ²	+			1
Dibenzofuran	+			/
Fluorene ²	+ -		-	<u> </u>
4-Chlorophenyl-phenylether	+		 	
4-Bromophenyl-phenylether	 		-	
Hexachlorobenzene	 		 	-
Phenanthrene ²	 	· · ·	<u> </u>	
Anthracence ²	/		-	/
Fluoranthene ²	/			
Pyrene ²		· /		
Benzo(a)anthracene²			/	/
Chrysene ²		<i></i>	 	
Benzo(b)fluoranthene ²	/	· · ·	/	<u> </u>
Benzo(k)fluoranthene²	/	<u> </u>	/	
Benzo(a)pyrene ²			/	/
Indeno(1,2,3-cd)pyrene ²	/	- 1	<u> </u>	<u> </u>
Dibenzo(a,h)anthracene ²		1	/	
Benzo(g,h,i)perylene²	1	1	/	. /
bis(2-Chloroethyl)ether				
n-Nitroso-di-n-propylamine	/	/	/	
Nitrobenzene	1	· /	1	
Isophorone	/	1	1	
bis(2-Chloroethoxy)methane	/	1	1	
Dimethylphthalate		1	/	
2,6-Dinitrotoluene	1	1	1	
2.4-Dinitrotoluene	1	/	1	
Diethylphthalate	/	1	1	1
n-Nitrosodiphenylamine	/	1	1	
di-n-Butylphthalate	/	1	1	/
Butylbenzylphthalate	1	/	/	1
3,3'-Dichlorobenzidine	1	1	/	
bis(2-Ethylhexyl)phthalate		1	1	1
di-n-Octylphthalate		1	1	/
n-Nitrosodimethylamine	/			1

Table A-2 (Continued)

Gas Chromatograph and Mass Spectrometer Semivolatiles Comparison of Target Analytes From Resource Conservation and Recovery Act Appendix IX Groundwater Monitoring List and U.S. Environmental Protection Agency Contract Laboratory Program Target Compound List

		CLP	Currently A Target	Detected at NAV\$TA
Semivolatile Organic Compounds	Appendix IX	TCL	Analyte	Mayport
2-Picoline			· · · · · · · · · · · · · · · · · · ·	<u> </u>
Diphenylamine				<u> </u>
4-Nitroaniline				
Benzyl alcohol	/			
n-Nitrosopiperidine	-		/	
n-Nitrosomethylethylamine				
4-Chloroaniline	1			
p-Phenylenediamine	1		/	
3- and 4-Methylphenol				
bis(2-Chloroisopropyl)ether	1			<u> </u>
Pyridine	1		/	
3,3'-Dimethylbenzidine	/		1	
Isosafrole	1		/	
Phenyl-tert-butylamine	*		1	
1,2-Diphenylhydrazine			/	
1,4-Naphthoquinone	1		/	
1-Naphthylamine	/		1	
Aramite	1		1	
Hexachloropropene	1		/	<u> </u>
Pronamide	/		/	
2-Acetylaminofluorene	/		1	/
n-Nitrosodiethylamine	/		1	<u> </u>
3-Methylcholanthrene	1		/	
4-Nitroquinoline-1-oxide			1	
7,12-Dimethylbenz(a)anthracene	/		/	
n-Nitrosomorpholine	/		/	
p-(Dimethylamino)azobenzene	/			
Pentachlorobenzene	1		/	
Phenacetin	1			
Ethyl methanesulfonate	/		1	
Aniline	/		1	
Methyl methanesulfonate	/		1	

Table A-2 (Continued)

Gas Chromatograph and Mass Spectrometer Semivolatiles Comparison of Target Analytes From Resource Conservation and Recovery Act Appendix IX Groundwater Monitoring List and U.S. Environmental Protection Agency Contract Laboratory Program Target Compound List

Group I and II RFA/SV Report U.S. Naval Station Mayport, Florida

Semivolatile Organic Compounds	Appendix IX	CLP TCL	Currently A Target Analyte	Detected at NAVSTA Mayport
Hexachlorophene	/		1	
Pentachloronitrobenzene	1		1	
2-Nitroaniline	1	1	1	
2-Methylnaphthalene ²	/	1	1	1
2-Naphthylamine	1		1	<u> </u>
Methapyrilene	/		/	
4-Aminobiphenyl	1			
Benzidine			/	
n-Nitroso-di-n-butylamine	1		1	
n-Nitrosopyrrolidine	/			<u> </u>
Safrole	1			
o-Toluidine	1		1	
1,2,4,5-Tetrachlorobenzene	1	<u></u> .	1	
Acetophenone	1		/	
3-Nitroaniline	1	1	/	<u> </u>
1,3,5-Trinitrobenzene	1		1	
5-Nitro-o-toluidine	1		1	
1,3-Dinitrobenzene	1		1	<u> </u>
Carbazole		1	1	<u> </u>

¹ Analyte is both a volatile and semivolatile target analyte.

Notes: Target analytes for environmental and quality control samples collected at each Solid Waste Management Unit.

Appendix IX = 40 Code of Federal Regulations Part 264, Appendix IX, Ground Water Monitoring List. Analytical Methodology for Appendix IX is <u>Test Methods for Evaluation of Solid Wastes</u>, US EPA, SW 846, Third Edition, November, 1986. (And Proposed Update Package, 1989.)

CLP TCL = U.S. Environmental Protection Agency Contract Laboratory Program, <u>Statement of Work for Organic Analysis</u>, <u>Multi-Media</u>, <u>Multi-Concentration</u>, Exhibit C, Target Compound List and Contract Required Quantitation Limits, 0LM01.0. July 1993.

² Analyte is a polynuclear aromatic hydrocarbon.

Table A-3

Gas Chromatograph Pesticides, Herbicides and Polychlorinated Biphenyls Comparison of Target Analytes From Resource Conservation and Recovery Act Appendix IX Groundwater Monitoring List and U.S. Environmental Protection Agency Contract Laboratory Program Target Compound List

Pesticides, Herbicides and Polychlorinated Biphenyls	Appendix iX	CLP TCL	Currently A Target Analyte	Detected at NAVSTA Mayport
Organochlorine Pesticides			<u> </u>	
alpha-Benzene hexachloride (BHC)	1	1		/
beta-BHC	1	1		/
delta-BHC	1	· /	1	1
gamma-BHC (Lindane)	1	1		
Heptachlor	1	/	/	1
Aldrin	/	1	✓	
Heptachlor epoxide	1	1	/	1
Endosultan I	1	1	1	<u> </u>
Dieldrin	/	1	/	
4,4'-Dichlorodiphenyldichloroethylene (4,4'-DDE)	1	1	1	/
Endrin	1	1	/	<u> </u>
Endosulfan II	1			
4.4'-Dichlorodiphenyldichloroethane (4-4'-DDD)	/	1		/
Endosulfan sulfate	1	1	/	
4.4'-Dichlorodiphenyltrichloroethane (4,4'-DDT)		/	/	
Methoxychlor	_/	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	
Endrin keytone		1	/	<u> </u>
Endrin aldehyde	1	1	/	<u> </u>
alpha-Chlordane	/	1	/	/
gamma-Chlordane	1		/	/
Toxaphene	1	1	/	
Organophosphorus Pesticides				
Aspon-SS	/		*	
Triethylphosphorothioate	1		*	
Thionazin	1		*	
Parathion methyl	- /		*	
Phorate	1		+	
Disulfoton			+	
Sulfotepp	/		*	
Famphur	1		*	
Parathion ethyl	1		*	
Dimethoate				

Table A-3 (Continued)

Gas Chromatograph Pesticides, Herbicides and Polychlorinated Biphenyls Comparison of Target Analytes From Resource Conservation and Recovery Act Appendix IX Groundwater Monitoring List and U.S. Environmental Protection Agency Contract Laboratory Program Target Compound List

Group I and il RFA/SV Report U.S. Naval Station Mayport, Florida

Pesticides, Herbicides and Polychlorinated Biphenyls	Appendix IX		Currently A Target Analyte	Detected at NAVSTA Mayport
Chlorinated Herbicides				,
2,4-Dichlorophenylacetic acid			*	
3,5-Dichlorobenzoic acid			*	
Dinoseb	1		*	<u> </u>
(2,4,5-Trichlorophenoxy)-acetic acid (2,4,5-T)	/		*	
a-(2,4,5-Trichlorophenoxy) propionic acid (2,4,5-TP) (Silvex)	,		*	
2,4-Dichlorophenoxyacid (2,4-D)			*	
Polychlorinated Biphenyls (PCBs)				1
Aroclor-1016	1	1	/	
Aroclor-1221	1	1	/	
Arocior-1232	1		/	<u> </u>
Aroclor-1242	/	1	/	
Arocior-1248	/	1	1	/
Aroclor-1254	1	1	1	
Aroclor-1260	1	1	T .	\ \ \ \ _

Notes:

- ✓ = Target analytes for environmental and quality control samples collected at each Solid Waste Management Unit.
- * = Target analytes for environmental and quality control samples collected at pesticide handling and storage sites.

Appendix IX = 40 Code of Federal Regulations Part 264, Appendix IX, Ground Water Monitoring List. Analytical Methodology for Appendix IX is <u>Test Methods for Evaluation of Solid Wastes</u>, US EPA, SW 846, Third Edition, November, 1986. (And Proposed Update Package, 1989.)

CLP TCL = U.S. Environmental Protection Agency Contract Laboratory Program, <u>Statement of Work for Organic Analysis</u>, <u>Multi-Media</u>, <u>Multi-Concentration</u>, Exhibit C, Target Compound List and Contract Required Quantitation <u>Limits</u>, 0LM01.0, July 1993.

Table A-4

Inorganics and Cyanide

Comparison of Target Analytes From Resource Conservation and Recovery Act Appendix IX Groundwater Monitoring List and U.S. Environmental Protection Agency Contract Laboratory Program Target Analyte List

Group I and II RFA/SV Report U.S. Naval Station Mayport, Florida

<u> </u>	- Waype	ort, riorida	Currently	Detected at
Inorganics and Cyanide	Appendix IX	CLP TAL	A Target Analyte	NAVSTA Mayport
Aluminum	<u> </u>	1		
Antimony	/	1	1	/
Arsenic	1	1	1	
Barium	/	1	1	
Beryllium	1	1	1	
Cadmium	1	1	1	
Calcium		1	1	
Chromium	/	1	1	
Cobalt	1	1		
Copper	/	1	/	
Iron		1	1	
Lead	/	1	/	
Magnesium		1	/	
Manganese		1	/	/
Mercury	/	1	/	
Nickel	1	1	/	
Potassium		1	/	/
Selenium	1		/	
Silver	1	/	/	/
Sodium		1		/
Thallium	1	1		
Tin	/	 	/	
Vanadium	1	/		/
Zinc	1	1		
Cyanide		/	/	-

Notes: ✓ = Target analytes for environmental and quality control samples collected at each Solid Waste Management Unit.

Appendix IX = 40 Code of Federal Regulations Part 264, Appendix IX, Ground Water Monitoring List. Analytical Methodology for Appendix IX is <u>Test Methods for Evaluation of Solid Wastes</u>, US EPA. SW 846, Third Edition, November, 1986. (And Proposed Update Package, 1989.)

CLP TAL = U.S. Environmental Protection Agency Contract Laboratory Program, Statement of Work for Inorganic Analysis, Multi-Media, Multi-Concentration, Target Analyte List and Contract Required Quantitation Limits, ILMO 1.0, March 1990.

APPENDIX B DATA SUMMARY TABLES

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BKG SVOC (8270-24) Rittrasodimethylamine Pheroi Aniline big (2-Chlorosthyl) ether 1,3-Dichlorobenzere 1,4-Dichlorobenzere 1,2-Dichlorobenzere 2-Rethylpherol bis (2-Chlorolsopropyl) ether 1,2-Dichlorobenzere 1,4-Dichlorosthara Hitroso-di-n-propylamine Hexachlorosthara Hitropherol 2,4-Dimethylpherol 2,4-Dimethylpherol 1,2,4-Trichlorobenzere 1,4-Dichloropherol 1,2,4-Trichlorobenzere 1,2-Dichloropherol 1,2,4-Trichlorobenzere 1,2-Dichloropherol 1,2,4-Trichlorobenzere 1,2-Dichloropherol 2-Hethylpherol 2-Hethylamhthelere 2,4,5-Trichloropherol 2-Hethylamhthelere 2,4,5-Trichloropherol 2-Chloromaphthelere 2,4,5-Trichloropherol 2-Chloromaphthelere 2,4,5-Trichloropherol 3-Ethylpherol 2-Chloromaphthelere 2,4,5-Trichloropherol 3-Chloromaphthelere 2,4-Dinitrotolume 3-Ethylpherol	Lab Sa
• • • • • • • • • • • • • • • • • • •	Lab Sample Number: Site Locator Collect Date: VALUE
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E-Hitrosomorpholine	7723	3-Hethylcholanthrane	7, 12, 51 Tethy (Dena (A) Anthropresse						C. Marting Committee		Pentachlorobenzene	1,2,4,5:Tetrachlorobenzene	Dent Idina	E-Mitrosopy rolidine	#1201700001017Ylanina	M-Mitroso-di-n-butylesine	2,6-Dichloropherol	Prony Control Ducy Control	H-H-KTOROP-Dericking	Acetocherone		Rechyl Becharesulf prace			ロープログラストアルス・イグ・マファー・コード・イン・イン・イン・イン・アルス・イグ・マー・イン・マー・イン・マー・イン・マー・イン・マー・イン・マー・イン・マー・イン・イン・イン・イン・イン・イン・イン・イン・イン・イン・イン・イン・イン・			Benzo(b) 1 Lucrenthene	Di-n-octylphthalate	bie(2-Ethylhexyl)phthalate		Benzo(a)anthracene	S G - Dichiprobenz idine	- But City Poy City Protection 1997 (1997)	T L COT BYLINETS		Anthreces A	Phenonthrene	PentachLorophenol	Hexaco Corobantana	4-Broschenyl-Dienylether	1 2-D Cohart Party 2 Tell 1 2 Cohart Party 2 Cohart		トトラーナー・ファン・ソート・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア		4-Chlorophenyl-phenylether			Locator	Site	Lab Sample Number:	
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ATION LIMIT IS ESTIMATED

2-: 13-: AND 14-DICHLOROBENZENE WERE GENERATED FROM THE SVOC (8270) ANALYTICAL RUN.

			"	NAVSTA MAYPORT RFA Sediment Data	YPORT It Data							
Lab Sample Number: Site Locator Collect Date:	W7645007 RFADATA APSD009 02-AUG-94 VALUE QUAL UNIT	M7645007 RFADATA 49SD09 02-AUG-94 DUAL UNITS DL	VALUE	N7645006 RFADATA 495D010 02-AUG-94 QUAL UNITS	1178 1078 1078	VALUE	_	15	DL VA	N7 R1 43 VALUE QUI	N7645008 RFADATA 49SD012 02-AUG-94 QUAL UNITS	Þ
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WO 1,4-DICHLOROBENZEMS WERE GENERATED FROM THE SVDC (5270		
UND 1,4-DICHLOROBENZEMS WERE GENERATED FROM THE SYDC (8270)		
UND 1,4-DICHLOROBENZEME WERE GENERATED FROM THE SYDC (6270) AM		

		NAVSIA MAYPORT RFA Sediment Data	
Lab Sample Number: Site Locator Collect Date:	R8730003RE RFADATA 49SD016RE 12-SEP-94 VALUE QUAL UNITS DL	R8730001 RFADATA 49SD017 12-SEP-94 VALUE QUAL UNITS DL	RB730002 RFADATA 49SD017b 12-SEP-94 VALUE QUAL UNITS DL
1,2-Dichiorobenzene 2-Chioroethylvinylether Ethyl methacrylete	7 III 19/kg 7 III 19/kg	13 U 19/kg 26 UJ 19/kg 13 U 19/kg 13 U 19/kg	13 12 U Wg/kg 12 25 UJ Wg/kg 12 13 12 U Wg/kg 12 13 12 U Wg/kg 12
trans-1 4-Dichloro-2-butere isobuty! elcoho! 1-1-1-2-Tetrachloroethare	7 UJ Wg/kg 270 R wg/kg 7 UJ Wg/kg		13
1, 2- Discourse thans 1, 2- Discourse thans 1, 4- Discourse 3- Chioropropone	78/kg 78/kg 78/kg	510 P S	500 A CAVAG
Acetonitrile Chloroprene Chloroprene Methacrylonitrile Methyl methacrylate			887. EEE '
Pentachioroechum Propienitrile Vinyl acetate	140 UJ 197kg 14	-5	250 LLJ LLB/kg 25 25 U LLB/kg 25

NAVSTA MAYPORT RFA Sediment Data

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۽	4950016 12-SEP-94 QUAL UNITS R ug/kg	VALUE 7	25 25	4950015 12-SEP-94 QUAL UNITS	VALUE 850	2	4950014 12-SEP-94 QUAL UNITS	AVLUE	&	4950013 12-SEP-94 QUAL UNITS	AVINE	Locator Collect Date:	
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ERE GENERATED FROM THE SVOC (8270) ANALYTICAL RUN.

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	ш 6 /69	_			t R ug/kg
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Acrylonitrile		140 U ug/kg			7 R ug/kg
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NAVSTA MAYPORT RFA Sediment Data

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Lab Sample Number: Site Locator Collect Date:	#7645007 #7645006 #FADATA #FADATA ### 495D009 #95D010 ### 02-AUG-94 #95D010 ### O2-AUG-94 #95D010 #### VALUE QUAL UNITS DL VALUE QUAL UNITS	M7645009 RFADATA 49SD011 02-AUG-94 DL VALUE QUAL UNITS DL	M7645008 RFADATA 49SD012 49SD012 02-AUG-94 VALUE QUAL UNITS DL
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etmylene chiorium	240 J 56 16 23 U	98 U 49/kg 18 U9/kg	:c •
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lodomethane 1,4-0 ich lorobenzene Acrylonitrile	U 19/kg 320 450 U	11000 13 U	
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i.	146 mg/t	 I. *		1/8m 1/8m	150 150	iu .		1/6w	150 .3 U			1/6w	166	mg/l	GROUND WATER QUALITY Alkalinity &s Caco3 Ammonia-W
P	N7646003 RFADATA 49SW012 02-AUG-94 QUAL UNITS	VALUE	P	M7646004 RFADATA 49SW011 02-AUG-94 QUAL UNITS	_	SUTVA	문	M7646001 RFADATA 49SWD10 02-AUG-94 QUAL UNITS		VALUE	5	M7646002 RFADATA 495W009 02-AUG-94 QUAL UNITS	M764 RF 49: VALUE QUAI		Lab Sample Number: Site Locator Collect Date

U = NOT DETECTED R = RESULT IS REJECTED
J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED
TO DOITIONAL LISTINGS OF RESULTS FOR 1.2-; 1,3-; AND 1,4-DICHLOROBENZE VERE GENERATED FROM THE SVOC (D270) AMALYTICAL RUN.

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NAVSTA MAYPORT RFA Surface Water Data

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NAVSTA MAYPORT
RFA Surface Water Data

ATION LIMIT IS ESTIMATED ANALYTICAL RUM. 2-; 1,3-; AND 14-DICHLOROBENZENE WERE GENERATED FROM THE SVOC (0270) ANALYTICAL RUM.

Mathapyritere 3,3'-bisethytbenzidins Hexachiorophens 2-chlorophens 3-& 4-Mathytphens 4-Mathytphens Diphenylamine Hexachioropropens 2-Acetylaminofluorens 2-Acetylaminofluorens		
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NAVSTA MAYPORT
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NAVSTA NAVPORT RFA Ground Water Data

Leb Sample Number: Site Locator Collect Date:

R8229001 RFADATA OZWAOD9S 21-JUN-94 QUAL UNITS

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VALUE

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R8218001 RFADATA 02MJO10S 16-JUN-94 QUAL UNITS

RB609004 RFADATA 02MA013S 24-AUG-94 QUAL UNITS

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		TTCJDES/PCB+ (SV-8		Service SHC (Linders)	Aldrin	Endosulten I Dieldrin	Endrin		4,4-001	Endrin eldehyde Endrin ketone	Chlordene Chlorobenzilate Dimilate	Taxephena Taxephena	7.7.7	Araclar-1242 Araclar-1248 Araclar-1254	Aractor-1260
	Leb Sample Number: Site Locator Collect Date:	1/6n (0800'978·AS)	 Н. 7 (б.)												
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	Pr S		er Err								:	· 222 . 家	-22 -22	232. 464.	
		31 10 000	· /- /- ·				.e	**************************************				manan##	— . — — (, p = 2)	ara Til	M. Educations

TION LIMIT IS ESTIMATED
1. 1.3-; AND 1.4-DICHLOROBENZENE WERE GENERATED FROM THE SVOC (5270) ANALYTICAL RUM.

	Lab Sample Number: Site Site Locator Collect Date: Wathapyrilere J.3'-Dimethylbenzidire Haxachlorophere Armite Armite 2-Chioropherol 3- 8.4-Methylphenol (2) 4-Mathylphenol	R6228 RFAD 028400 21-JU VALUE QUAL I 50 U 50 R 50 R	RFA Ground Water Data R8215001 RFADATA 02MA010S 16-JUN-94 VALUE QUAL UNITS D 10 U US/1 50 U US/1 50 U US/1 10 U US/1 10 U US/1 10 U US/1 10 U US/1 10 U US/1 10 U US/1	R8228004 RFADATA RFADATA D2MA010S 21-JUN-94 DL VALUE QUAL UNITS DL 10	R8608003 RFADATA 02MA0138 24-AUG-94 VALUE QUAL UNITS DE 50 U ug/1 10 500 R ug/1 10 500 R ug/1 10 10 U ug/1 10 10 U ug/1 10 10 U ug/1 10
10		10 th 100/1	50 u ug/t	50 - 49/1 10 • 49/1	1/6n ± 005 1/6n n 01 1/6n n 05
10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hexach Loropherse Arasi te 2 - Chiorophersol	500 R vg/1 50		50 · · · · · · · · · · · · · · · · · · ·	
	5- 6 4-metnytimenos (6) 6-Methytiphenol Diphenytiasine Hexachtoropropene	50 W// 50			10 m m m m m m m m m m m m m m m m m m m

NAVSTA MAYPORT

BKG SVC. (8270-26) B-Witroscolimathylamine phenol Aniline bis (2-chloropethyl) sther j.3-bishlorobenzene erzyl Alcohol 1,2-bishlorobenzene 2-ksthylphenol bis(2-chlorolopropyl)isther Hitroscoli-r-propylamine Nitroscoli-r-propylamine Nitroscoli-r-propylamine Nitroscoli-r-propylamine Nitroscoli-r-propylamine Nitroscoli-r-propylamine Nitroscoli-r-propylamine Nitroscoli-r-propylamine Nitroscoli-r-propylamine 2,4-prichloroethoxy)methane 2,4-prichloroethoxy)methane 2,4-prichloroethoxy)methane 2,4-prichloroethoxy)methane 2,4-prichloroethoxy)methane 2,4-prichloroethoxy)methane 2,4-prichloroethoxy beachloroethoxy beachloroethoxy beachloroethoxy methane 4-chloro-senthylphenol 2-methylphenol 3-mitroscilime Acenaphthene 2-mitroscilime 3-mitroscilime 3-mitroscilime 3-mitroscilime 3-mitroscilime 3-mitroscilime 3-mitroscilime 4-mitroscilime 4-mitroscilime 4-mitroscilime 4-mitroscilime 4-mitroscilime 5-mitroscilime 6-mitroscilime 6-mitros	Lab Sample Number: Site Locator Collect Date:	
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	R8228004 RFADATA OZMADIOS 21-JUN-94 VALUE QUAL UNITS DL	
10 C C C C C C C C C C C C C C C C C C C	RB608003 RFADATA 02MA013S 24-AUG-94 VALUE QUAL UNITS	
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HIT IS ESTIMATED WERE GENERATED FROM THE SVOC (8270) ANALYTICAL RUN.

			NAVSTA MAYPORT RFA Ground Water Data			
	Lab Sample Number: Site Locator Collect Date:	R8228001 RFADATA 02MM009S 21-JUN-94 VALUE QUAL UNITS DL	R8215001 RFADATA 02MA010S 16-JUN-94 VALUE QUAL UNITS DL	RB228004 RFADATA 02MA010S 21-JUN-94 VALUE QUAL UNITS DL	R8608003 RFADATA 02MJ013S 24-AUG-94 VALUE QUAL UNITS DL	
3-Chiteropropens Acetonitrile		Top u	1/8n - 1/8n -	001 1/87 ft 201 5 1/87 ft 201 5 1/87 ft 5	1/8n - 1/8n rn 001 1/8n n S	5
Anto-operate Nethacrylonitrile Nethyl methacrylate Pantachilorpatharm		5 U W/L 5	 		199 E E E E E E E E E E E E E E E E E E	
Propionitrile Vimyl acetate		10 U Ug/1 100 10 U Ug/1 100	1 / gu	100 C 48/7	10 C	10

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Data	2

Lab Sample Number: Site Locator Collect Date:	e 9 g :: Valu	R8228001 RFADATA 02MJ009S 21-JUN-94 QUAL UNITS	2	VALUE	R8215001 RFADATA 02MA010S 16-JUN-94 QUAL UNITS	몬	VALUE	RB228004 RFADATA 02MA010S 21-JUN-94 QUAL UNITS	P	VALUE OF RE	R8608003 RFADATA 02MW013S 24-AUG-94 QUAL UNITS	P.
VDCs (8240+11) ug/l loromethane reprisheration chiorida		50 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5 5 5		 8/12 8/12		3535	8 6 6 6 8 6 6 6 8 7 7 7 8	888		48/1 18/1 18/1	
ethylene chioride cetone cetone arbon disulfide 1-Dickloroethene 1-Dickloroethene (totel) 2-Dickloroethene (totel)		<u> </u>	พพพพพลัง		1/69/1/69/1/69/1/69/1/69/1/69/1/69/1/69			\$\$\$\$\$\$	งหนหหอืเ			nunununun i
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is-1,3-Dichloropropene richloroethene ibromothloromethene 1,2-Trichloroethene lenzene rans-1,3-Dichloropropene		22.5 2.5 2.5 2.5 2.5 2.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3			5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			\$ \$ \$ \$ \$, www.	<u> </u>	, W. W. W. W. W.
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				4 1 14 44 P					3.			

U = NOT DETECTED R = RESULT 18 REJECTED

1 = ESTINATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

TO OPTITIONAL LISTINGS OF RESULTS FOR 1.2-; 1,3-; AND 1,4-DICHLOROBENZE** VERE GENERATED FROM THE SVOC (8270) ANALYTICAL RUN.

3 4.885

	mg/t	•		mg/l			mg/l		mg/t	TOTAL PETROLEUM HYDROCARBONS Total petroleum hydrocarbon
	units	10.4		units	7		S it	6.9	units	PH PH
	APHA	50		АРНА	50		AHAA	70	АРНА	COLOR
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DL	H7492007 RFADATA 26MH004S 10-JUL-94 QUAL UNITS	AVIA	<u>P</u>	M7515002 RFADATA 26MJ003S 13-JUL-94 QUAL UNITS	VALUE	₽L	M7505007 RFADATA 26MH001S 12-JUL-94 QUAL UNITS	H75 RI 269 12- VALUE QUI		

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	RB811004 RFADATA 26MM004S 26-SEP-94 QUAL UNITS
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	ample Number: Site Locator Collect Date:	1/Bn		9875878CF	\$10 73 8 3 s.c	11 to 11 to 1885 to 1	8-180 W.T.	881 mellaus
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Ground Water Data	RBB20014 RFADATA 26MH001S 28-SEP-94 QUAL UNITS	1/8n 1/8n 1/8n	1/6n 1/6n	.7 55 18/1 18/1		8/1 8/1		1/gu
ata	F							
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) P	N	, N	7.		7.8	N	
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	2 NN 2			2.7 W				
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ETTICIDES/PCEs (SN-346,5080) alpha-BHC delta-BHC delta-BHC limbers (Lindens) Reptachlor Aldrin Reptachlor sported Endoultien I 1,4-PDE Endrin Endoultien II 4,4-PDE Endrin sulfate Chlorotens Chlorotens Chlorotens Chlorotens Chlorotens Isodrin Kepone Aroclor-1232 Aroclor-1234 Aroclor-1246 Aroclor-1254 Aroclor-1256 Aroclor-1260	
Lect I	Leb Sample Number: Site
VALUE 00045 10-JUL-94	97490009 8FADATA
Bullnuli Linipraparakakakaka	

PESTICIPES/PCBs (SW-846,0000) elphs:BHC elphs:BHC delta-	Lab s	
	Lab Somple Number: Site Site Locator Collect Date: VALUE	
	M7503009 RFADATA 26MN001S 12-JUL-94 OUAL UNITS DL	
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<u> </u>	N7503011 RFADATA RFADATA 26MN002S 12-JUL-94 QUAL UNITS DL VA	
.02 U ug/1 .02 U ug/1 .02 U ug/1 .02 U ug/1 .02 U ug/1 .02 U ug/1 .04 U ug/1 .05 U ug/1 .05 U ug/1 .06 U ug/1 .07 U ug/1 .08 U ug/1 .09 U ug/1 .09 U ug/1 .09 U ug/1 .09 U ug/1 .09 U ug/1 .09 U ug/1 .09 U ug/1 .09 U ug/1 .09 U ug/1 .09 U ug/1 .09 U ug/1 .09 U ug/1 .09 U ug/1 .09 U ug/1 .09 U ug/1 .09 U ug/1 .09 U ug/1 .09 U ug/1 .09 U ug/1	N7513002 RFADATA 26M4003S 13-JUL-94 VALUE QUAL UNITS I	
	D L	

ERE GENERATED FROM THE SPOC (8270) AMALYTICAL RUN

ATION LIMIT IS ESTIMATED
2-; 1,3-; AND 1,4-DICHLOROBENZ

NAVSTA MAYPORT
RFA Ground Water Data

Lab Sample Number:

Site Locator Collect Date:

-Toluiding exachlaropropene -Phenylanadiaming

PACADOS READATA 26M0048 10 U U4/1 10 U4/1 1	Pronunt de Promet de p. (Dimethylamino) azobanzene p. (Dimethylamino) azobanzene 7, 12- Dimethylamino) azobanzene 3- Hathylaholanthrana Pyridine H-Hitrosomethylathylamino H-Hitrosomotpholine	W-Mitrosodistrylamins W-Mitrosopyrrolidins W-Mitrosopyrrolidins W-Mitrosopyrrolidins 1, 2, 4, 5-fetrachlorobenzers 1, 2, 4, 5-fetrachlorobenzers Petrachlorobenzers 1-Naphthylamins 2-Naphthylamins 2-Naphthylamins 2-3, 4, 6-fetrachlorophenol Phonacetin 4-Aminobiphenyl 4-Aminobiphenyl	Renzodd h. 1) perylene 2-Picoline 2-Picoline Rethyl methanesulforate Ethyl methanesulforate Ethyl methanesulforate Acetophenor I-Nitrosopiparidine Phenyl-tert-burylamine 2-6-Dichlorophenol 1-8-Birgoo-di-n-burylamine	Benzo(a) anthracere Chrysere bis(2-Ethylhexyl) phthalate bi-n-octylphthalate Benzo(b) fluoranthere Benzo(b) fluoranthere Benzo(k) fluoranthere Benzo(k) fluoranthere lindano(1,23-od)pyrere lindano(1,23-od)pyrere	- Bromoghery: pherylether - Bromoghery: pherylether Hexachlorophero! Pheranthrene Anthrecene Di-n-Butylphthelate Fluoranthere Pyrene Butylbenzylphthelate Butylbenzylphthelate	Lab Sample Number: Site Locator Locator Collect Date: 4-Chioropheryl-pharylather fluorena 4-Witrosofilme 4,6-Dinitro-Z-methylphanol N-Witrosodipherylamine (1)
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	668655 CCCCCC	225555 <u>25</u> 55		.65555555 .525555555	835555555 ccccccc	W7490 RFAD 26MN0 10-JU VALUE QUAL 10 U 50 U 10 U
						2-2-2-1 W

Collect Detr. Collec
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Mathapyrilisme 3.3:-0 imethylbenzidine A sanite A sanite A cetylamino Diphenylamino Hezschloropheno 2.4cetylaminofluorene 2.4cetylaminofluorene U. MOT DETECTED R = RESUL J. MOT DETECTED R = RESUL J. MOT DETECTED R = RESUL J. MOT DETECTED R = RESUL J. MOT DETECTED R = RESUL J. MOT DETECTED R = RESUL J. MOT DETECTED R = RESUL J. MOT DETECTED R = RESUL J. MOT DETECTED R = RESUL	
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READATA 26MA001SD 12-JUL-94 19-101-94 10 U U9/1 10 50 U U9/1 10 10 U U9/1 10 10 U U9/1 10 10 U U9/1 10 10 U U9/1 10 10 U U9/1 10 10 U U9/1 10 10 U U9/1 10 10 U U9/1 10 10 U U9/1 10 10 U U9/1 10 10 U U9/1 10 10 U U9/1 10	NAVSTA MAYPORT RFA Ground Water Data M7503010
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RFADATA 2684,003\$ 13-UL-94 50 U ug/1 50 R ug/1 10 U ug/1 10 U ug/1 10 U ug/1 10 U ug/1 10 U ug/1 10 U ug/1 10 U ug/1	# <i>7</i> 513002
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Lab Sample Number: Site Locator Collect Date:	M7503009 RFADATA 26MM001S 12-JUL-94	M7503010 READATA 26MN001SD 12-JUL-94	M7503011 RFADATA 26MN0025 12-JUL-94	RFADATA 26MN003S 13-JUL-94
Anthraceria Di-m-Butylphthalate	10 HJ 49/1		10 10 UJ Ug/1 10 U 10 UJ 10 10 U U UJ/1	10 U
Fluorenthere	EE		10 52	
Buty: benzy (price) exce 3,3'-Dich (probenziding	EES	- -	58 E	
Benzoca) anthrecers		c c	10 10 EL 49/1	10 U ug/L 10
bie(2-etnytnexyt)prichesere	E	= =	10 10 13 18/1	10 0 09/1 10
Benzo(b) fluorentheme	٤E	C	E	3 3 6
Bears(a) pyrena	55 52 5/-/		10 10 10 10 10 10 10 10 10 10 10 10 10 1	
Dibenz(a,h)anthracene	23	10 U ug/1	10 10 10 10 10 10 10 10 10 10 10 10 10 1	ug/1
2-Picoline	586	c c	50 50 UJ Ug/1	10 U Ug/1 10
Ethyl methenesulfonate			10 10 15 15 15 15 15 15 15 15 15 15 15 15 15	10 Lag/
N-Mitrosopipecidine	56: E:	50 50 50 50	1/87 FO 05	.
2,6-Dichlorophenal	= 5	33 c c	10 L 0/4 TO 10 L 00 L	10 0 49/1 11
H-Mitrosodiethylamine		c c :	10 10 U W/L	100 49/1
2 =	EES	c c	50 50 UJ Ug/1	50 U ug/(50
Pentach(probenzere		c <	50 50 UJ Lg/1	50 U 49/1 51
2-Hophthylamine		50 U ug/l	50 50 uJ ug/t 1	10 0 49/1
Phenice (n	EE'	e c	20 50 UJ 1971	50 U Ug/1 50
Pantachi uroni trobanzana	EE	50 c cg/1	10 10 W W/1	70 C 19/1
p-(Dimethylamino)azobanzana		10 c ug/t		10 c ug/.
3-Methylcholanthrene		50 c 49/1	20 20 W/1 W/1	50 U ug/1 51
# Witrosomethylethylamine	EE	10 to to to 10/1	10 10 11 140/1	
g-Toluiding Hexachloropropens	50 LJ . wg/1	50 - 50		500 U ug/1 500 500 U ug/1 500 U u
p-Phanylenadiesine Safrole	EE	= = :	38 EE	E 6/1
1 4-Haph thogaings	EES		188 E E	10 U Ug/L 10
5-Nitro-o-talvidine 1,3,5-Trinitrobenzere	55 E 46/1	10 0 0 00/1	500 500 LL 49/1	5-6
4-Mitroquination: 1-mita				

BIG. SVDC. (8270+24) Bi-Witroscodisethyla estire phenol Anilline bis (2-chloroethyla ether) 1,2-0 ichlorobenzene 2-nethylphenol bis(2-chloroscopy) tether 1,2-0 ichlorobenzene 2-nethylphenol bis(2-chloroscopy) tether 3-nitroscodi-n-propy tesine Hauschloroschory mether 1,2-1 introdenzene 2-nitrophenol 2,4-0 instrylphenol 2,4-0 instrylphenol bis(2-chloroschory) methere 2,4-0 ichlorobenzene bis(2-chloroschory) methere 2,4-0 ichlorobenzene 4-chloroschory methere 2,4-0 ichlorobenzene bis(2-chloroschory) methere 2,4-0 ichlorobenzene 4-chloroschiline 4-chloroschiline 4-chloroschiline 2,4,5-1 richlorophenol 2-isthylonehthalene 2,4,5-1 richlorophenol 2-istrylphithalene 2,4-0 initroschusene 2,4-0 initro	Lab Sample Number: Site Locator Coilect Date:	
10	W7503009 W7503010 RFADATA RFADATA 26MN001S 26MN001S0 12-JUL-94 12-JUL-94 VALUE QUAL UNITS DL VALUE QUAL UNITS DL	RFA Ground Water Data
######################################	N7503011 N7513002 RFADATA RFADATA 26MN002S 26M003S 12-JUL-94 13-JUL-94 VALUE QUAL UNITS DL VALUE QUAL UNITS DL	

TITIONAL LISTINGS OF RESUL	STIMATED VALUE UJ - REPORTE	NOT DETECTED R - RESULT 18 4
THICKAL LISTINGS OF RESULTS FOR 1,2: 1,3-1 AND 1,4-DICHLONDBENCE THE GENERAL EN PROPERTY	DOLLAR TOTAL CHARLES AND LINES	
CAL CONTROL OF		
CONTROL OF THE PARTY OF THE PAR	COM THE SAME (8270) AMALYTICAL RUN.	

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, P	F 5 6 5 3	VALUE 2	된	7 - 5 5 5 5	VALUE _	P		_	AVLUE	12 Dt	AL U FA5A	AVINE B:	Lab Sample Number: Site Locator Collect Date:	l st	
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## ATOSONO REPORT PATE AND THE	### Chi cromethare Ch	Leb Sample Number: M7503009 Site RFADATA Locator 26MA0015 Collect Date: VALUE QUAL UNITS	
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l É	#45446666666666666666666666666666666666	M7503011 RFADATA 26MA002S 12-JUL-94 QUAL UNITS	

U # NOT DETECTED R = RESULT IS REJECTED
J = RESTINATED VALUE UJ = REPORTED GUANTITATION LIMIT IS ESTIMATED
THE ADDITIONAL LISTINGS OF RESULTS FOR 1,2-; 1,3-; AND 1,4-DICHLOROBENZENS WERE GENERATED FROM THE SVOC (8270) ANALYTICAL RUN.

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)/B	•		mg/1	3990		•		4.6		Total Organic Carbon
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	3 2 2 2	۶. 88.	i	<u></u>	26				.21		Phosphorous-P, Total
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	7.0g	3.69		7. - 	. 38 . 38		. •		. 524 . 52		Hardness as CaCO3
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ü	3	 		3	7.6	i.		mg/			Amonia-M
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, i										•	
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NAVSTA MAYPORT
RFA Ground Water Data

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NAVSTA MAYPORT RFA Ground Water Data

Lab Sample Mumber: Site Locator Collect Date:

N7491005 RFADATA OBMNOOBS 09-JUL-94 QUAL UNITS

R8628003 RFADATA OBMADO9S 26-AUG-94 QUAL UNITS

RB710001 RFADATA 08MM010S 09-SEP-94 QUAL UNITS

RB710002 RFADATA OBMMO10SD 09-SEP-94 QUAL UNITS

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NAVSTA MAYPORT RFA Sediment Data

Lab Sample Number: Site Locator Collect Date:

R8730004 RFADATA 49SD013 12-SEP-94 QUAL UNITS

R8730006 RFADATA 49SD014 12-SEP-94 QUAL UNITS

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R8730005 RFADATA 49SD015 12-SEP-94 QUAL UNITS

RB730003 RFADATA 49SD016 12-SEP-94 QUAL UNITS

7.4 mg/kg 7.3 J mg/kg 6.5 J mg/kg 7.4 mg/kg 7.4 mg/kg 7.4 mg/kg 7.4 mg/kg 7.4 mg/kg 7.4 mg/kg 7.4 mg/kg 7.4 mg/kg 7.4 mg/kg 7.4 mg/kg 7.4 mg/kg 7.4 mg/kg 7.4 mg/kg 7.4 mg/kg 7.4 mg/kg 7.4 mg/kg 7.4 mg/kg 7.4 mg/kg 7.5 mg/kg 7.6 mg/kg 7.7 mg/kg 7.8 mg/kg 7.	Lab Sample Number: M7645007 M7645006 Site RFADATA RFADATA Locator 495009 495010 Collect Date: 02-AUG-94 02-AUG-94 VALUE QUAL UNITS Di VALUE QUAL UNITS
10.2 J 70/40 10.8 70/40 10.8 70/40 10.8 70/40 2.3 J 70/40 2.3 J 70/40 2.7 J 70	H7645009 RFADATA 49SD011 02-AUG-94 DL VALUE QUAL UNITS DL
1.7 J mg/kg 6.9 J mg/kg 18.1 J mg/kg 2.3 U mg/kg 2.3 U mg/kg 3.6 J mg/kg 11.9 J mg/kg 11.9 J mg/kg 2.9 J mg/kg 2.9 J mg/kg 2.9 J mg/kg 1.6 U mg/kg 1.6 U mg/kg 1.6 U mg/kg 1.6 U mg/kg 1.6 U mg/kg 1.6 J mg/kg 26.6 J mg/kg 57.5 mg/kg 57.5 mg/kg	M7645008 RFADATA 49SD012 02-AUG-94 VALUE QUAL UNITS DL

NAVSTA MAYPORT RFA Sediment Data U = NOT DETECTED R = RESULT IS REJECTED

J. ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

NOTITIONAL LISTINGS OF RESULTS FOR 1,2-; 1,3-; AND 1,4-DICHLOROBENZEMS WERE GENERATED FROM THE SVOC (8270) ANALYTICAL RUN.

TOTAL PETROLEUM HYDROCARBONS Total petroleum hydrocarbon	Total Organic Carbon		
RBONS mg/kg carbon	m9/k9		Lab Sample Number: Site Locator Coilect Date:
mg/kg	44500 mg/kg		M7645007 RFADATA 495009 02-AUG-94 VALUE GUAL UNITS
, mg/kg	31200 mg/kg		NAVSTA HAYPORT RFA Sediment Data M7645006 RFADATA 49SD010 02-AUG-94 VALUE QUAL UNITS D
- mg/kg	55500 mg/kg	7.	H7645009 RFADATA 49SD011 02-AUG-94 VALUE QUAL UNITS DL
- mg/kg	53200 mg/kg		M7645008 RFADATA 49SD012 02-AUG-94 VALUE QUAL UNITS DE

mg/kg 1.6 1.6 U mg/kg 1.6 37.7 mg/kg 37.7 mg/kg 10.3 U mg/kg 10.3 U	.74 J mg/kg .89 J mg/kg .52 U mg/kg .52 .51 U mg/kg .52 .51 U mg/kg .52 .51 U mg/kg .52 .51 U mg/kg .52 .6 U mg/kg .52 .33.3 mg/kg .52 J mg/kg .37.7 mg/kg .37.7 mg/kg .37.0 mg/kg .37.0 mg/kg .37.0 mg/kg .37.0 mg/kg .37.1 mg/kg .07 J mg/kg .07 J mg/kg .07 J mg/kg .07 J mg/kg	17.5 U 37.7 10.3 U	10.9 0.7 1	
mg/kg 1.6 33.3 1.6 1.6 U	mg/kg .52 .89 J mg/kg .52 .51 U mg/kg 1.6 33.3 mg/kg 1.6 1.6 1.6	7.6 		
	70/kg .89 J	7 7 7	31.5 1.6 1.6	

NAVSTA MAYPORT
RFA Sediment Data

Lab Sample Number:

Site Locator Collect Date:

R8730001 RFADATA 49SD017 12-SEP-94 QUAL UNITS

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R8730002 RFADATA 49SD017D 12-SEP-94

#STINATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

3-Chloropropens Acstomitrils Chloroprens Hethacrylonitrils Hethyl methacrylate Hethyl methacrylate Pantachlorosthams Propionitrils Vinyl scetate	
	Lab Sample Number: Site Locator Collect Date:
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488888 888888 888888	R8665001 RFADATA 568800101 01-SEP-94
11 150	DL VA
1865 1865 187 187 187	NAVSTA MAYPORT RFA SURface Soil Data R6665002 RFADATA 568500101b 01-SEP-94 VALUE QUAL UNITS D
ug/kg ug/kg ug/kg ug/kg ug/kg	MAYPORT Soil Data 002 ATA 101b P-94 UNITS DL
100 10 10 10 11 11	VALUE
49/46 49/46 49/46 49/46 49/46	R8665004 RFADATA 56SS00201 01-SEP-94 QUAL UNITS
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10114.10.	RB66 RFJ 56SS 01-5
	R8665006 RFADATA 565S00301 01-SEP-94 QUAL UNITS DI
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Lab Sample Number: Site Locator	R8665001 RFADATA 568800101	NAVSTA MAYPORT RFA Surface Soil Data R8665002 RFADATA 565S00101D	R8665004 RFADATA 568800201	R8665006 RFADATA 568800301	
BKG YOCS (8240+11) ug/kg Chioromethane	11 U ug/kg 11	10 U ug/kg	_	11 U ug/kg	=
Promome thans Vinyl chlorida Chioroethans		10 U ug/kg 10 U ug/kg 10 U ug/kg	10 10 U UB/Kg	.=== :ccc	.===
Rethylene chipride Acetone Carbon disulfide	5 U 49/kg 5 5 U 49/kg 11	5 U ug/kg 8 J ug/kg 5 U ug/kg	5 5 U U9/kg	50 11 0 19/kg	տ=տ
1,1:Dichloroethane	27/8 27/8 27/8 27/8 27/8		5 5 5 5 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5	5 C C C C C C C C C C C C C C C C C C C	.
1,2-Dichiaroethern (total)	CE		19/kg	5 C Ug/kg	. UT UT 1
1, 2-0 (ch liproe thane 2-But enone	11 By/80 11 20 mg/80 5	5 U ug/kg 10 U ug/kg	5 9/kg	5 5 U ug/kg	,=,
Carbon tetrachtoride		5 U Ug/kg		5 0 09/kg	A UI U
3	55 - 56/2 55/2 55/2	5 U ug/kg 5 U ug/kg	55, 55, 55, 55, 55, 55, 55, 55, 55, 55,	55 56 66 66 66 66 66 66 66 66 66 66 66 6	uu
Trich a roethere Dibrosoch Lorose thane	15 U Ug/kg	5 U ug/kg 5 U ug/kg	5 U 49/kg	5 U ug/kg	w w
Gentere		5 U Ug/kg		5 - 19/kg	, U, U
Dromo form	5	5 U ug/kg		50 49/6	i u c
Z: Hazanore Tetrachloroethene	5 C V6/kg 11	10 U ug/kg	5 70 W/Kg	10 11 U Ug/kg	" ⊐ :
1,1;2,2-TetrachLoroethane	- 5/6 - 5/6 - 5/6 - 5/6	5 U ug/kg 5 U ug/kg	5 5 U Ug/kg	5 C CO/kg	i u n un
Styphoniana Styphoniana Coloniania		5 U Ug/kg	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5 C CO/kg	
Xylenes (total) In chilorof (woromethere	5 C 8/6	5 U ug/kg	55 55 55 55 55 55 55 55 55 55 55 55 55	S C 49/49	
1, 3-8 ich lorabenzene Acrolein	110 U wg/kg 110		100 6	50 50 ug/kg	110
lodomethane least orobenzana		. C	5 U	5-1 5-C	G=
ACTYLORIET LUB Dibromomathere 1 2-bickbrokenzene	50 vg/kg 110	5 U Ug/kg 5 U Ug/kg		100 110 U Ug/kg	700 5
2-Chlorgethylvinylether Ethyl methacrylate	11 U Ug/kg 11	- E	5 U Ug/kg	C C	" З
trains-1, 4.0 ichtoro-2-butern	• = =	• = =		5 0 0 00/kg	UN U
some stone	50 mg/kg	5 U ug/kg	5 5 U 49/Kg	5 50 vg/kg	5
	> E	≈ €!	210 m 02/kg		

BOT DETECTED R = RESULT IS RESULTS FOR 1,2:, 1,3-; AND 1,4-DICHLOROBENZEF VERE GENERATED FROM THE SVOC (82) DITIONAL LISTINGS OF RESULTS FOR 1,2:, 1,3-; AND 1,4-DICHLOROBENZEF VERE GENERATED FROM THE SVOC (82)
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1.2-Dichlorobenzene 2-Chloroethylvimylether Ethyl methacrylete 1.2.3-Trichloropropene 1.2.3-Trichloropropene 1.3-Trichloropropene 1.4-Dichloro-Z-butene 1.2-Dibromo-3-chloropropene 1.4-Diokare 3-Chloropropene Acetonitrile Methacrylonitrile Methacrylonitrile Pentachloroethane Propionitrile Propionitrile Propionitrile Propionitrile Propionitrile Propionitrile Propionitrile Propionitrile Propionitrile Propionitrile Propionitrile Propionitrile Propionitrile	Lab Sample Number: Site Locator Collect Date:
100 U 49/69 100 U	Number: R8665008 Site RFADATA Locator 56SS00401 t Date: 01-SEP-94 VALUE QUAL UNITS DL

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Soil D	MAYPORT
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Lab Sample Number: Site Locator Collect Date:

R8665008 RFADATA 56SS00401 01-SEP-94 QUAL UNITS

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Ethylbenzers Styrens Styrens Xylenss (total) Irichlorofluoromethars 1,3-0ichlorobenzers Acrolein Iodomethans 1,4-Dichlorobenzers Acrylonitrils Dibromomethans	Trichlorgethene Dibromochlorgethene 1, 2-Trichlorgethene Benzene trans-1,3-Dichlorgeropene trans-1,3-Dichlorgeropene Bromofors A-Hethyl-2-pentarione 2-Hexarone Tetrachlorgethene 1, 2,2-Tatrachlorgethene Tollene Chlorgemizene	1, 1-Dichtoroethere (total) 1, 2-Dichtoroethere (total) thtoroform 1, 2-Dichtoroethere 2-Butanome 1, 1, 1-Frichtoroethere Carbon Tetrachtoride Bromodichtoromethere 1, 2-Dichtoropropere	
100 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			

Lab Sample Number: Site Site Locator Collect Date: Pyrene Butylbenzylphthalate 3.3:-Dichlorobenzidine Benzo(a)ainthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)pyrene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Benzo(g,h,i)perylene 2-Picoline Methyl methanesulfonate Ethyl methanesulfonate A-Nitrosopiperidine Phenyl-tert-butylamine N-Nitrosopiperidine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodyrrolidine	VALUE R86 PALUE QUA 710 U 710 U	R8665001 RFADATA 56SS00101 01-SEP-94 QUAL UNITS U	PL 710 710 710 710 710 710 710 710 710 710	SECTED TO COLUMN	0002 0002 0010	· 14	·	6651	DL 590 590 590 590 590 590 590 590 590 590	XALUE VALUE 88650 97- SER OCCUPATION OF THE PROPERTY OF T	5	
iutylbenzylphthalate ,3:-Dichlorobenzidine enzo(a)anthracene	710 U 710 U	ug/kg ug/kg	710 710 710	ccc	59/kg 6/kg	869 869 869 869 869 869 869 869 869 869		8/8 8/8 8/8	690 690	700 700		<u> </u>
ois(2-Ethylhexyl)phthalate)i-n-octylphthalate		63/69 63/69	220		5 6 6 6 6 6	\$ % &		5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	69 89 89 89	700 700	e e e	<u> </u>
3enzo(b)fluoranthene 8enzo(k)fluoranthene	710 u	ug/kg	:25		64/60 64/60	690		: 69/kg	696	70	= = = : 5 & !	55?
Benzo(a)pyrene	710 U	19/kg	710 710	c c	64/kg	690	090 u	54/6n	990	700	C C	至三
Indeno(1,2,3-cd)pyrene Dibenz(s,h)anthracene	710 U	09/kg	710	= 0	19/kg	690	690 U	ug/kg	069 069	700 700	= =	~ ~
Benzo(g,h,i)perylene	710 U	رو/ ورارو الرو/	3500 3500	c	59/kg	3400	3400 u	ug/kg	3400	3500	_ (* * * *
Methyl methanesulfonate	710 u	ug/kg	710	: C	63/6n	690		19/kg	\$ 6	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	= =	ᇫ
Ethyl methanesulfonate	710 U	63/69 63/89	710	C (ug/kg	690		ug/kg		5	: C	SÆ.
N-Nitrosopiperidine			710	= =	19/kg	690		_	070	3500	۶۹	EZ
Phenyl-tert-butylamine 2.6-Dichiorophenol		n9/kg	710	- 1	ug/kg	88			88	25	= =	52
N-Nitroso-di-n-butylamine		ug/kg	710 710	c =	ug/kg	69 90 90		84/8n 84/8n	690	700	C C	52
N-Nitrosopyfrolidine		64/kg	1 500	= 5	19/kg	100A			3400		- E	エエ
Benzidine 1.2.4.5-Tetrachtorobenzene	3500 U	ug/kg	3500	: C (ug/kg	3400		09/kg	3400		= =	5.5
Pentachlorobenzene	3500 U	ug/kg	3500	3400 U	ug/kg 6/kg	3400 3400	7400 E	03/80 03/80	3400		ug/kg	5 2
1-Naphthylamine 2-Naphthylamine	3500 U	ug/kg	3500		09/kg	3400		-6/kg	34,00		= =	: 조
2, 3, 4, 6-Tetrachlorophenol	710 u	5/kg	710 710	690 U	2/g/ 2/g	69 90 90	690 U	ug/kg	690	700	U ug/kg	55
Phenacetin 4-Aminobiphenyl	3500 U	u9/kg	3500	=	يو/ و//و	3400		19/kg	3400	3500 3500	= =	55
Pentachtoronitrobenzene	3500 U	19/kg	35UU 710	069 2500 0	6/kg	690	0 069 0 0045	63/60 53/60	690	700	U ug/kg	조 2
p-(Dimethylamino)azobenzene	710 U	ug/kg	710	=	-9/kg	90	_	5/g	2	700	= =	5 <u>5</u>
7, 12-Dimethylbenz (A)Anthracene	710 U	6/6/20 6/20	710 710	690 C	56/kg	690	090 U	ug/kg	690	700	C	조 3
3-Metaytonotantarene Pyridine	7500 LJ	ug/kg			ug/kg	ĝ	3400 U.	_	.	3500 700		ᅐᅎ
N-Mitrasomethylethylenine	710 U	64/69 F9/k9	72	690 U	6/6 6/6	692	690 U	6/kg	690		_ (조
n-witrosomorphotine o-Tatuidine		24/60 10/40	710		6/6	7 690 069	7.690 U 000	Ug/kg	1004 1004 1004 1004 1004 1004 1004 1004	3500	- -	ᅎᄚ
Hexachtoropropene	71 0005k	54/kg	9000	rn 0007£	2/c4	ş		_			٤	Ξ.
p-Phenylenedianine	7500 U	6/kg	3500		4 / 6 ·	3400		_	3400		= =	55.
	3500 U		70000	7000 E	6 /6 / 6	0000 0040 0040	000099 0056	5 §	68000 68000	69000	U vg/kg	Σ^{2}
1_4-Naphthoquinone 1_3-bisitrobenzene	710 U	2/6 6/8	710	900 U	5	8	690 U	- 6/G	88		= =	SE.
S-Eigro-o-rolaidine	710 U	ve/kg	710	690 U	u g/kg √kg	696 696 696		ug/kg	690	700	: c c	5 2
4-Nitroguinaline 1-oxide	35000 U	ug/kg	35000	34000 U	ug/kg	24000	34000 U	ug/Kg	34000	35000	o og/kg	-
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Lab Sample Number: Site Locator Collect Date:

R8665001 RFADATA 56SS00101 01-SEP-94 QUAL UNITS

R8665002 RFADATA 56SS00101D 01-SEP-94 QUAL UNITS

R8665004 RFADATA 56SS00201 01-SEP-94 QUAL UNITS

R8665006 RFADATA 56SS00301 01-SEP-94 QUAL UNITS

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Phenanthrene	Pentachi orocheooi	#-ar ondeneny (-prietry) etner	1, 2-Diphenythydrazine	H-Nitrosodiphenylamine (1)	4,6-Dinitro-2-methylphenol	4-Mitrosniline	Fluorene	6-Chiorophenyl-phenylether	Diethylphthalate	2,4-Dinitrotoluena	Dibenzofuran	4-Nitrophenol	2,4-Dinitrophenol	Acenaphthene	3-Mitroaniline	2,6-Dinitrotaluene	Acenaphthylene	2-Kitroaniline	2-Chloronaphthalene	2,4,5-Trichlorophenol	Dimethylphthalate	2,4,6-Trichtorophenol	Hexachlorocyclopentadiene	2-Methylnaphthalene	4-Chloro-3-methylphenol	Hexach lorobutadiene	4-Ehloroaniline	Naphthalene	1,2,4-Trichtorobenzene	2,4-Dichlorophenol	bis(2-Chloroethoxy)methane	Benzoic acid	2.4-Dimethy(phenol	2-Nitrophenni	Witropenzene	Hexachloroethane	N-Mitroso-di-n-propylamine	bis(2-Chloroisopropyl)ether	2-Methylphenol	1,2-Dichlorobenzene	Benzyl Alcohol	1,4-Dichlorobenzene	1,3-Dichlorobenzene	bis (2-Chloroethyl) ether	Aniline	Phenol	M-Nitrosod methy lanine	BKG SVOC (8270+24)	
710 1	1 0032	710 1	70	710 L	3500 0	3500 L	710 L	710 L	710 (710 L	710 1	3500 L	3500 L	710 L	3500 L	710 L	710 1	3500 L	710 L	3500 t	710 t	710 t	710 t	710 t	710 i	710 L	710 L	710 L	710 ι	710 L			710 U	710	710 1	710 (ו פוק	710 (710 (<u>.</u>	710 (5	·U1	710 (710 (710 1	710 1	ug/kg	리마를 구하셨습니다.
49/kg	5/5	-0/kg	ug/kg	ug/kg	ug/kg	ug/kg	- 19/kg		ug/kg	- 	- 49/kg	ug/kg	ug/kg	ug/kg	- 59/kg	- W9/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	Lg/kg	ug/kg	Lg/kg	ug/kg	ug/kg	ug/kg	ug/kg		_	10/kg		ug/kg	ug/kg	ug/kg	ug/kg	J ug/kg	l ug/kg	ug/kg	J ug/kg		- 49/kg	Lg/kg	ug/kg	l ug/kg	:	1.0000
710	1505	710	710	710	3500	3500	710	710	710	710	710	3500	3500	710	3500	710	710	3500	710	3500	710	710	710	710	710	710	710	710	710	710	710	;	710	710	710	710	710	710	710	5	710	5	5	710	710	710	710		
690 0	7 00 0	\$ 2 2	690 -	090 U	3400 U		069 0	- 069 -	u 069	ь 1000 1	₽ 069 1	3400 U	3400 U	690 U	3400 U	40 O	690 U	3400 U	690 U	3400 U	090 U	0 069	0 069	069 U	090 U	090 U	090 U	069 U	090 U	090 U		7400 UJ	690 = 0	600	690	690 и	090 U	069 0	U 069	5 C	090 u	5	ح د	n 069	690 u	690 U	069 U		
6/kg	19/kg	V9/K9	ug/kg	ug/kg	mg/kg	ug/kg	ug/kg	ug/kg	- 24/gr	6x/8n	94/kg	9/kg	ug/kg	ug/kg	2 9/k0	ug/kg	64/Br	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	94/g	ug/kg	ug/kg	ra/kg	ug/kg	ug/kg	uq/kg	ug/ka	19/kg	19/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ey/kg	ug/kg	ug/kg	19/kg	ug/kg		
88	200	38	8	690	3400	3400	690	89	690	69	69 8	3400	3400	690	3400	690	690	3400	690	3400	690	690	690	690	690	690	690	690	690	690	690	Ç	666	900	8	690	690	690	690	u	690	ۍ.	ر.	690	690	690	690		
690 E	100	3	690	069 U	3400 U	3400 u	0690 L	690 E	690 C	690 c	69 =	3400 U	3400 C	690 U	3400 u	069 □	690 U	3400 U	- 069 -	3400 U	069 □	690 U	069 U	690 U	090 U	690 u	069 0	069 0	₩ 069	090 U	00 U	7400 ILI	9 5	960	690	090 U	069 0	690 U	₽ 069	5 C	690 U	.s	.; _	690 U	990 u	490 U	₩ 1069		
19/kg	ug/kg	ON/RO	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	بو/ka	19/kg	29/kg	29/Kg	ug/kg	ug/kg	64/8n	24/g	04/go	ug/kg	ug/kg	19/kg	L9/kg	19/kg	63/Bn	- Pa/kg	S 9/kg	ug/kg	ug/kg	ug/kg	U9/kg	ug/kg	ug/kg	ug/ka	re/ka	5/kg	ug/kg	ug/kg	ug/kg	B¥/Bn	ug/kg	ng/kg	ug/kg	ug/kg	ug/kg	ug/kg	Da/kg	ug/kg	u ()	La/ka), (* .	Section 1
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∪9/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	بور دوران	ug/kg	63/65	ug/kg	ug/kg	ug/kg	⊔9/kg	ng/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	- Ko	ر الم الم	- 10/kg	19/kg	- 64/kg	19/kg	63/6n	ug/kg	ug/kg	ug/kg	ug/kg	19/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	19/kg	00/kg	(10/ka		
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Lab Sample Number: Site Locator Collect Date:

R8665008 RFADATA 56SS00401 01-SEP-94 QUAL UNITS

· · · · · · · · · · · · · · · · · · ·	Diethylphthelate	2,4-Dinitrotoluene	Dibenzofuran	4-Mitrophenol	2,4-Dinitrophenol	Acenaphthene	3-Witrosmiline	2,6-Dinitrotoluene	Acenaphthylene	2-Witroeniline	2-Chloronaphthalene	2,4,5-Irichlorophenol	Dimethylphtholate	2,4,6-Trichlorophenol	Hexachlorocyclopentadiene	2-Methylnaphthalene	4-Chloro-3-methylphenol	Hexachtorobutadiene	4-Chloroaniline	Naphthalene	1,2,4-Trichlorobenzene	2,4-Dichlorophenol	bis(2-Chloroethoxy)methane	Benzoic acid	2,4-Dimethylphenol	2-Nitrophenol	Isophorone	Nitrobenzene	Hexachloroethane	N-Witroso-di-n-propylamine	bis(2-Chloroisopropyl)ether	2-Methylphenol	1.2-Dichtorobenzene	Benzyl Alcohol	1.4-Dichlorobenzene		bis (2-Chloroethyl) ether	Aniline	Phenot	HICO	BKG SVOC (8270+24)	
																																									ug/kg	
		700 U											7.00				700			260			700 0						_	700 U		700 U		700 u		700 U	700 U		700 U			
	6x/6n	ug/kg	ug/Kg	03/kg	By /60	A /Bn	64.78v	R / R			18/18 18/18	6/kg	64/6a	19/kg	6x/8n	ex/en	ug/kg	ey/eu	5/29	L9/K9	ey/en	ug/kg	ug/kg	ug/kg	Py/Bn	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	6y/Bn	ug/kg	ug/kg	ug/kg	ug/kg	Pa/kg	ug/kg		٠.
	è	į	É	1400	1 4	7.00	700	7 8	700	700	000 7.00	700	7 60 7	700	700	700	700	700	7 6	700	700	200	žè		è	700	10	ě	įè	è	700	700		700		700	700	700	ě	ě	}	٠

Lab Sample Number: Site Locator Collect Date:	VALUE	R8665001 RFADATA S6SS00101 01-SEP-94 QUAL UNITS	ᆮ	R8 56S VALUE QU	R8665002 RFADATA 56SS00101D 01-SEP-94 QUAL UNITS	2	RE OLIVE OLIVE	R8665004 RFADATA S6SS00201 01-SEP-94 QUAL UNITS	무	VACUE TO SERVICE TO SE	R8665006 RFADATA 56SS00301 01-SEP-94 QUAL UNITS	۶
Methapyrilene 3,3:-Dimethylbenzidine	3500 U. 710 U	ug/kg	710	บ 069 กก 085	ug/kg ug/kg	690	3400 U	J ug/kg ug/kg	690	3500 U 700 U	ນ ug/kg ບ ug/kg	700
Hexachtorophere	35000 R	ug/kg		34000 R	ug/kg		34000 R	ug/kg		35000 1		
Aramite	3500 U	J ug/kg	į	3400 UJ	ug/kg	; }	3400 U	l wg/kg)	3500 1	Ξ	1
2-Chlorophenot	710 U	0/kg	710	069 0 069	ug/kg	6 69	069	. <u>.</u>	8	700		7 2 3 3 3
6-Methylphenol		67√63 1975	;		ug/kg	;	• (8/g	•	• ;		
Diphenylamine Hexachloropropene	3500 U	ug/kg ug/kg	3500	3400 U	ug/kg	3400	3400 U		3400	3500 L	_	3500
2-Acetylaminofluorene	710 U	ug/kg	710	490 U	ug/kg	690	090 U		690	700 1	_	700

U = MOI DETECTED R = RESULT IS REJECTED QUANTITATION LIMIT IS ESTIMATED

THE ADDITIONAL LISTINGS OF RESULTS FOR 1,2-; 1,3-; AND 1,4-DICHLOROBENZENE WERE GENERATED FROM THE SVOC (8270) ANALYTICAL RUN.

4-Methylphenol 0 iphenylanine Nexachloropropene 2-Acetylaninofluorene	Hexachlorophene Aramite 2-Chlorophenol 3- & 4-Methylphenol (2)	4-Nitroquinoline-1-oxide Methapyrilene Methapyrilene 3,3'-Dimethylbenzidine	1,4-Naphthoquinone 1,3-Dinitrobenzene 5-Nitro-o-toluidine	o-Toluidine Hexachloropropene p-Phenylenediamine Safrole Isosafrole	Lab Sample Number: Site Locator Collect Oate:
3400 U 700 U	3400 700 700 700	34000 34000 700	69000 700 700 700	700 3400 3400 3400	VALUE
e e	6652		c c c c	ccEcc	7866 RFF 01-10
49/kg 49/kg	66/kg	6/kg	6/kg	09/kg 09/kg 09/kg	R8665008 RFADATA 56SS00401 01-SEP-94 QUAL UNITS
3400 700	700 700	34000 700	69000 700 700	3400 3400	P

U = NOT DETECTED R = RESULT IS REJECTED

J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

TO TOTTOMAL LISTINGS OF RESULTS FOR 1,2-; 1,3-; AND 1,4-DICHLOROBENZEUS VERE GENERATED FROM THE SVOC (8270) ANALYTICAL RUN.

#-Witrosomery: Groy Lowerty	Pyridine	3-Hethylcholanthrame	7 12-DimethylbenicA)Anthrecane	7: Originativi sa ino laz obenzene		4-Million Direct	Phenacetin	2,3,6,6-Tetrachtorophenol	2-Naphthylanine	1-Naphthylamine	Pentachlorobenzene	1,2,4,5-Tetrachlorobenzene	Benzidine	M-Nitrosopyrrolidine	N-Nitrosodiethylamine	E-Birroso-di-D-butylamine	2 Audichiorophenoi	N-Nitrosopiperioine	Acetophenone	Ethyl methonesulfonate	Methyl methanesulfonate	2-Picoline	Renzo(a_h_i)Rerytene	Dibooy/e hlanthracene	Benzo(a)pyrene	Benzo(k)fluoranthene	Benzo(b)fluoranthene	Di-n-octylphthalate	Chrysene Chrysene	Benzo(a)anthracene	3,3'-Dichlorobenzidine	Butylbenzylphthalate	Fluorantnene	Di-n-Butylphthalate	Anthracene	Phenanthrene	Rexact Cropherol	4-Bromophenyl-phenyletner	1,2-Diphenythydrazine	W-Witrosodiphenylamine (1)	methylpho	4-Mitrosniline	# - Introduction of the second			Collect Date:	Locator	Lab Sample #unber:	
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	100/kg 700	19/kg /vu					Ug/kg 3400			/Kg 2400			7Kg 3400		/kg 700	/kg 700	/kg 700			700				kg 700		700			-		Kg 1400	7			700		LAI		700		,	_		(g 700	S DC	, -			

	17 U Ug/kg		Arocior-1254 Arocior-1260
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	 5		7
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	5		Endrin Recone
2.0	.0 Ug/kg	- N	Methonychlor
			Endosul fan sul fata
	==		Endosultan II
	E		
- G			Dieldrin
66			Heptachior epoxide
76	7 0 19/4		Aldrin
16			garma - BHC (Lindane)
	ξĘ	-	5040 - 0 H C
	7 u ug/k	-6/KB	PESTICIDES/PCBs (SV-046,0000) G
			¥ , 3

Lab Sample Number: Site Locator Collect Date:

R8665008 RFADATA 56SS00401 01-SEP-94 QUAL UNITS

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pha-BHC delta-BHC lindare endrin endosulfan II d.4-DD0 endrin aldehyde endrin lagoria lago	
ICLIDES/PCBs (SM-846,8080) ug/kg pha-BHC tra-BHC tra-BHC tra-BHC tra-BHC tra-BHC tra-BHC tra-BHC trin drin frachlor eldrin eldrin eldrin eldrin eldrin eldrin eldrin eldrin fracultan tl 4-DDD dosultan tl 4-DDD dosultan tl trin eldrin	Lab Sample Number: Site Locator Collect Date:
17 U 48/68 17 U 48/68 17 U 48/68 17 U 48/68 17 U 48/68 17 U 48/68 17 U 48/68 17 U 48/68 17 U 48/68 17 U 48/68 17 U 48/68 17 U 48/68 18/68 18/68 18/68 18/68 18/68 18/68 18/68 18/68 18/68 18/68 18/68 18/68 18/68 18/68 18/68	R8665001 RFADATA 568800101 01-8EP-94 VALUE QUAL UNITS
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13.0 U 48/6 13.0	R8665004 RFADATA 56SS00201 01-SEP-94 VALUE QUAL UNITS
aarkssk skergiiliiiiiiiisssssssiis	DL VALUE
7 U U9/K9 7 U U9/K9	R8665006 RFADATA 568800301 01-8EP-94 QUAL UNITS DL
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Zingdin	Silver Thaillum	Cyanida Cyanida	Cedmium Chromium Cobelt	Arsenic Barius	6 SOILS 1
					rials.
»-	_, N -		> 7.5 8 2.5 E C C	-7.9. 	#8/kg
33 22	8/6 8/6 13 13				
	1 1.72				<u>-</u>
	J mg/kg mg/kg mg/kg mg/kg				mg/kg
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mg/kg mg/kg 8.4.3 mg/kg	mg/kg 12 UJ mg/kg 43 mg/kg 44 43 UJ mg/kg 43 mg/kg 12 UJ mg/kg 12 mg/kg 12 mg/kg 12 mg/kg 1.7 1.7 U mg/kg 1.7	mg/kg .14 .26 U mg/kg .26 mg/kg .04 .2.7 J mg/kg .04 mg/kg .04	mg/kg .65 3.7 J mg/kg .64 mg/kg .65 2.4 J mg/kg .64 mg/kg .64	mg/kg .62 J mg/kg .09 mg/kg .16 .09 U mg/kg .09	1 U mg/kg
mg/kg 2.9 1 mg/kg 15.9 1 mg/kg 15.9 1	mg/kg 12 UJ mg/kg mg/kg 44 43 U mg/kg mg/kg 12 U mg/kg mg/kg 12 12 U mg/kg mg/kg 12 17 U mg/kg	mg/kg .14 ,26 U mg/kg .26 .14 U mg/kg .27 J mg/kg .04 .04 U mg/kg .04 .04 U	mg/kg .65 3.7 3 mg/kg .64 7.2 3 mg/kg .65 .66 U mg/kg .64 .71 3 mg/kg .64 .71 3 mg/kg .64 .71 3	mg/kg .62 J mg/kg .71 J mg/kg .71 J mg/kg .16 .09 U mg/kg .09 .13 U	1 1 U #6/kg

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R8665004 RFADATA 56SS00201 01-SEP-94

R8665006 RFADATA 56SS00301 01-SEP-94 QUAL UNITS

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AND 1,4-DICHLOROBENZ

ERE GENERATED FROM THE SVOC (8270) ANALYTICAL RUN

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RFA Soit Boring Data

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	Lab Sample Number: Site Locator Collect Date:
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U 49/kg U 49/kg U 49/kg U 49/kg U 49/kg	RFADATA 568S00104 01-SEP-94 QUAL UNITS DL
126 126 120 C 120 C 120 C 120 C	RB R 564 01 VALUE QU
09/kg 09/kg 09/kg 09/kg 09/kg	RFADATA FFADATA 568S00204 01-SEP-94 QUAL UNITS DL
120 110 W	R8 R 56 D1
11 67/60 67/60 67/60 67/60 77/60 77/60 77/60 77/60 77/60	18665007 RFADATA 66850304 11-SEP-94 NJAL UNITS DL
7 W 130 U 13 W 13 W 13 U	R866500 RFADATI \$685004 901-SEP-
49/kg 49/kg 49/kg 49/kg	065009 07ADATA 08S00405 1-SEP-94

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	ug/kg	260 R		200	₩.		u 9/kg u 9/kg	230 8 5			- £		1, 2-Dibromosthane
	5 6/6	7 IS	:	10/Kg	, 11 E		6/2	٤ -		5 5	EF		1,2-Tetrachloroethan
7	∟9/kg	260 R 7 U			230 E P 		6/6	. 70 C		76/2 2/6/2			trans-1,4-Dichloro-2-buters
7	υg/kg	70	~~	\$ \$	٥٥ د د د			===	•	\$ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	c		Ethyl methacrylate
- i	69/kg	70	•==	5/6 24/6	6 = =	ۍ ب	19/kg	= =			Έ,		
1 3 ~	5/6 6	17: = = :		\$ \$ \$	9 0 C E	786	5 5/6 6	c¢			= = ;		Acrylonitrile Dibromomethere
7 7	6/kg	130 U	, ä.	\ \{\{\}\}	. 5 . 	120	49/kg	120 0 1	•				1,4-01chlorobenzene
73	ug/kg	73 U	, =	8	. .	12	ug/kg	1200	120		c =		Acrolein
150	40/kg	980 U	- -			100 G	6/6	===			9//pu u 4//g		Trichloroft words them
77	6/6 6/8	7 U	~ ^			> 0 (6/kg		D.0	55	CE		Styrene forth
177	پو/لو او/لاؤ	7 U	~ ~			> 0 . 9	U9/kg		0.0	68	cc		Chlorobenzene
77	₩9/kg	7 T U	o		> 	>	ug/kg		00	26	6 U Ug/kg		1,1,2,2-Tetrachloroethane
~ ~	19/kg	7 C	•	3 3 3 3 3 3 3 3 3 3		. 0. 7	ug/kg	12 C	<u>0 N</u>	\$ &	12 U US/KG	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	2-Hexanone
ದದ	υg/kg 09/kg	ದ ದ 	.		(((((- (- (-	\$ 7 6	ug/kg		₩	<u>e</u> e			Bromoform
i	ug/kg	7 U	••	\$ & \$ &	5 6 E E E E		19/64 16/64	==	. O O	66	6 U ug/kg		
٠	69/kg	70	* •	5 <u>5</u> 2	5 E E E	00	19/kg	= =	,	64	: c c		
~~	6/2	77	· • •	€ € 2 2	00 ==	00	ug/kg	<u>-</u> -	> .		== (cis-1,3-Dichloropropene
7 7	6 6 6 6	77: = U	. (). (\$ (\$) 6 2	5 S		59/kg 69/kg	5.5 5.5	0.0		6 U Ug/kg		1,2-Dichloropropare
~~	ug/kg 6	7 U	>		- -		63/6n	- -	000	66	C.E		Carbon tetrechloride
. ~ -	₩ 10/kg	7 U	o- o-	19/kg	00 CC SS		5/kg	==		66	6 U 49/kg		2-But anone
, ដ	5/6	, II .	وقت	49/Kg	o	ಸ್ಕ	ug/kg 19/kg	= c	.				Chloroform 1 2-0 (chloroethene
77	6/kg	77: 40:	,	5/62	 		ug/kg	2 E	•				1,2-Dichioroethera (total)
~~	¥6/kg	7 U	~ ~	(A)	. C.	· o (49/kg	cc	₽ .0				1-1-Dichloroethene
	ور وزرو وزرو	7 0	~ ~	19/kg	25 25	> 0	ug/kg	= •	. ; 		6 II 19/kg		ACE TO THE TOTAL
, a.	49/kg	3 -		5/6 6	5.5 5.5	6	ug/kg	_ = (6 L 6/kg		Chloroethere Hethylene chloride
, #	ug/kg	.ជី: ==		\$ \\ \tilde{S} \\	_	12	19/kg	= =			=		Vinyl chlorida
ជជ	46/kg	###	33:	- S		10 N	ug/kg ug/kg	Ç C			12 U ug/kg	2	ij
ಮ	ua/ka	‡ =										5	
	-		***************************************	-	ONI ONLIN	VALUE	L S S L	QUAL UNITS	VALUE .	S	QUAL UNITS	AVLNE	Collect bares
2	N F U			•	RFADATA 56BS00304 01-SEP-94		\$	R8665005 RFADATA 56BS00204 01-SEP-94			R8665003 RFADATA 568800104 01-SEP-94	Number: Site Locator	Leb Sample Number: Site Locator
	ingo O	D8445000		•			ing Data	RFA Soil Boring Data	RFA				
							PORT	NAVSTA MAYPORT					

1de 41000 u	-	830 U	840	82000 H	190 E	Cenedianine 7100 II	\$1000 E	- CO - C			840	73 OCT 100 CT	830 L	830 ti	830 H		200	trachtorophenot and u		4100 U	4100 U	etrachtorobenzene 4100 U	- 9	N-Nitrosocietnytamine 270 III 10/kg	ylamine 830 U	830 U	ine 4100 UJ	eridine 830 u	- (830	310 H	830 U	e 830 U	830 u	830 U		230 0	thalate 830 U	830 U	830 0	ne 1600 U	enzylphthalate 830 U	830 U	830 U	Anthracene 830 U vg/kg		VALUE QUAL UNITS	\$69000000	
41000 38000				_		4100 1800	000 PF				A30 780	LAS						4100 3800	930 780 780	4100 S000				4100 3800	780	A30 780			-			930 780 780						830 780	930 780							830 780		Dt VALUE	
U ug/kg	U ug/kg	- Lo/kg	ug/kg		E (6/kg	E 19/kg	Ē	= 0	= (= (= ;	٤	_	_	–	C	-		= 0	= =	: =	-	_	- ;	٤	l lo/ka	= =	5	_	= 1	= 1	uo/ka	# ⊂	: c	C	_	-	U 09/kg	= c	= =	= =	: =	-	D ng/kg	Œ	U U9/kg	=	01-SEP-94 QUAL UNITS DL	568S0UZU4
30000 00000	780 770 U						لما	3900 J. 500 L		780 770 U	780 770 u			•						780 770 11				w		780 770 u	790 770 0	<u>.</u>				780 770 U				780 770 U	780 770 u	780 770 U		780 770 11			780 770 U	780 770 U	780 770 U	780 770 U		VALUE	20
ug/kg sauu	ug/kg 770	_	_	_	ug/kg 3800			و ا			va/kg 770					_	ug/kg 3800	9	16/kg	10/kg 3000		. 🕳				ug/kg 770			ug/kg 770				19/kg 3800					ug/kg 770	19/kg 77			19/KB 370			•	ug/kg 770	• :-	01-SEP-94 QUAL UNITS DL	708SUU3U4
43000 0	880 U	880 U	880 U	87000 U	4300 U	4300 U	43000 UJ	4300 u	980 u	880 u	880 U	rn 00£7	880 U	880 u	- 880 u	880 U	4300 U	4300 U	280 U	880	700 C	\$300 U	4300 U	4300 U	FD 088	880 c	2000	#500 C	780 U	880 4	- 088	980 U	13 0054 10 080		880	880 C	880 u	880 t	880 c c		BB0 C	980 1	. BBO	880 C	880 U	880 U	SIRO II	VALUE QUAL UNITS	
19/Kg 45000	ug/kg 880				ug/kg 4300					ug/kg 880					ug/kg 680		ug/kg 4300		ug/kg 880	1300 A300				ug/kg 4300		ug/kg 880	19/kg 590		ug/kg B80				ug/kg 4300		_			ug/kg 880		187kg 880			_			ug/kg 880		N118 DT	£5

		7.7	Capital Bot 118 April				
Lab Sample Number: Site Locator Collect Date:	R8665003 RFADATA 568500104 01-SEP-94 VALUE QUAL UNITS	Dt VALUE	R8665005 RFADATA \$68500204 01-SEP-94 QUAL UNITS	DL VALUE O	R8665007 RFADATA 56BS00304 01-SEP-94 QUAL UNITS DL	R86 R1 568 01 VALUE 043	R8665009 RFADATA S68S00405 01-SEP-94 O1-SEP-94
		4646 1886 1886 19					
BKG SVDC (8270+24) ug/kg	i de		=			770 RAO 11	in/ka AA
X-X-trosodinethylamine	830 U ug/kg	830	780 U ug/kg	780 770 1		770 880 U	ug/kg 880
Anitine	⊂ .		_	780 770 1			
bis (2-Chloroethyl) ether	: =		780 U ug/kg	780 770 1	LQ/K9	880 0	ug/kg oc
1,3-Dichlorobenzene		o- 0	6U ug/kg	6.0	53/kg	6 7 U	
Benzyl Alcohol	= 1		780 U ug/kg	780 770 L	ug/kg	770 880 U	
1,2-Dichtorobenzene	C		=	780 770 1		776 RRD C	
2-Methylphenol	830 U Ug/kg	B30 7	780 u ug/kg	780 770 (Lg/kg		ug/kg 880
N-Mitroso-di-n-propylamine	_ (=			_	
Hexachloroethane	_		=			770 880 U	
Nitrobenzene	830 W ug/kg	830 /A	780 u ug/kg	780 770 1	ug/kg		ug/kg 88
2-Nitrophenol	830 U ug/kg		_ (770 880 U	
2,4-Dimethylphenol	_	830 7	=				ug/kg bbu
Benzoic acid	630 U 19/kg	630 780	780 U ug/kg	780 770 1	- 50/kg	686	ug/kg 880
2.4-Dichlorophenol	- 1		_				
1,2,4-Trichlorobenzene	830 U ug/kg	830 70	780 U ug/kg	780 770 1	ug/kg	770 880 U	ug/kg 880
4-Chloroaniline	830 U ug/kg		C				
Hexachlorobutadiene	830 U ug/kg	830 7	780 U ug/kg	780 770 I	ug/kg	770 880 U	79/kg 68
2-Methylnachthalene	830 U ug/kg		=				
Hexachlorocyclopentadiene	830 tr ug/kg	830 7.	780 U ug/kg	780 770 L	- 10/kg	770 686 U	ug/kg 880
Dimethylphthalate	830 U ug/kg		= (
2,4,5-Trichlorophenol	: c	Last S	: =	Lil.			19/kg 4500
2-Chloronaphthalene 2-Mitroaniline	4100 U ug/kg	4100 3800	1800 U ug/kg	3800 3800 1	ug/kg 3		
Acenaphthylene	-		: =			770 880 0	
2,6-Dinitrotoluene	4100 tr ug/kg	4100 3800	1800 U ug/kg	3800 3800 1	ug/kg 3	3800 4300 U	ug/kg 4300
Acenaphthene	=		: Œ		-		_
2,4-Dinitrophenol	6100 U U9/kg	4100 3800 3800	00 U ug/kg		09/kg 3	800 4300 U	ug/kg 430
Dibenzofuran			_		. –	770 BB0 U	
2,4-Dinitrotoluene	==		= =				59/kg 58
4-Chiorophenyi-phenylether	830 U ug/kg		_	780 770			
Fluorena	=	•	: c			1 0057 008	
A-Mitrophilipe	4100 U Ug/kg	4100 3800	OD U Ug/kg	3800 3800	\$/\$6	3800 4300 U	ug/kg 430
a-Aitrosodiphenylasine (1)	, C		=			_	
1,2-Diphenylhydrazine	830 U ug/kg	830 7	780 U ug/kg	780		770 B80 u	ug/kg 86
Hexachi orobenzene	530 U 49/Kg		=			_	
Pentachlorophenol	4100 U Ug/kg	4100 3800 790	790 U ug/kg	3800 3800 1 780 770 1	1 09/kg	770 880 U	09/kg 68
		•	•				

Lab Sample Number: Site Locator Collect Date:	R8665003 Site RFADATA Sator 568500104 Date: 01-SEP-94 VALUE QUAL UNITS DL	R8665005 RFADATA 568500204 01-SEP-94 VALUE QUAL UNITS DL	R8665007 RFADATA 56BS00304 01-SEP-94 L VALUE QUAL UNITS DL	R8665009 RFADATA 568800405 01-SEP-94 UNITS	DE .
PESTICIDES/PCBe (SU-846,8080) ug/kg		}			
elphe+BHC	.84 U .09/kg .84 1.6 U .09/kg 1.6 84 U .09/kg .84	. 78 U ug/kg 5 1.5 U ug/kg . 78 U ug/kg	.78 .77 U 49/kg 1.5 1.5 U 49/kg .78 .77 U 49/kg	1.5 1.7 U ug/kg	25 - 7 - 88
genna-88C (Lindare)	ve/ke		.77	. 88 U	22
ACATO		. 78 U	 	 26 66 C C	2 2
Endosul fan I	5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -			 8 88 = =	 8 8
**************************************	- u9/kg	1.5 U	1.5 2.4 49/kg	1.5 1.7 U ug/kg	1.7
Endosul fan 11		 	1.5 U 49/kg	1.5 1.7 U ug/kg	1.7
Endosulfan sulfate		1.5	1.5 1.5 2 Lg/kg	1.5 1.7 U ug/kg	1:7
Rethoxychior	- 4/kg	- 3.1 - 5 C	- W - S = C	3.6 U	1.6 1.7
3 5	C 49/kg		1.5	1.7 U	
Chlordena Late	U ug/kg	23,	= c	26	: 20
Toxephene	~ ~	38 U	38 38 U 40/kg	C C	65
	E	. 78 U Lu 7,	.7 E	5.08 C	2 . 2 .
Arcclof: 1016	41 C ug/kg	= =	3 5	3 2 2	26
	: = 0	= = =	[7]: 	282	386
			35 C S		26:
Arocior-1260	20 U wa/kg 20	19 U	18.0	21 U	2
		P-02		100	

U # NOT DETECTED R = RESULT IS REJECTED

J # ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

THE ADDITIONAL LISTINGS OF RESULTS FOR 1,2-; 1,3-; AND 1,4-DICHLOROBENZENE WERE GENERATED FROM THE SVOC (8270) ANALYTICAL RUN.

		3 - Ye	Hercury Hickel	v opp	Argel La	eryllium	G SOILS METALS		
							řis	Lab Sample Number Sitt Locator Collect Date	
		gerit. Lietig					8 /6	,	
	ы. Б. Ф. М.	55 Ki	 		720		i.	VALUE	
	223 226	Wales						R8665003 RFADATA 568S00104 01-SEP-94 QUAL UNITS	
	ю м ы			4.	3 <u>2</u> 5	:	ī.	몬	
	5 9 9		 	. 1.3 163	. 1.2 2.7 5	2.5 2.5	-	AVTOE.	777
		< c 5		- C C		C	C	R8665005 RFADAYA 568S00204 01-SEP-94 QUAL UNITS	CTA SOIL BOTTING DATA
i a		 64:-	7.2	.1.3	7.7.	ا ن ے	1.2	₽	918
	u _					8. £		VALUE	
			20/6 20/6	2 (8 E			u 1400/±	RB665007 RFADATA 56BS00304 01-SEP-94 QUAL UNITS	
	e per a l'an	54.5 ·	Jakas.					ν ·	
		78		्र इ	3 ² 5	. N	9	5	
		. 55						ŀ	
	1.8 2.1 U mg/kg 1.4 J mg/kg 6.7 J mg/kg		.05 U mg/kg	-5'		. 42 J),2 1.3 U	ρĹ	
	8888			mg/kg		.42 J ng/kg 3.2 J ng/kg .08 U ng/kg),2 1.3 U	DL VALUE	

NAVSTA MAYPORT
RFA Ground Water Data

Leb Sample Number: Site Locator Collect Date:	VALUE	REATZSOOS READATA 56MNOOTS 10-SEP-94 QUAL UNITS
3-Chloropropens Acetonitriis Chloroprens Hethacrytonitriis	10	
Hethyl methacrylate Pantachloroethana Propionitrile Vinyl acetate	5 8 56	£888

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U = NOT DETECTED R = RESULT IS REJECTED

L STIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

DOITIONAL LISTINGS OF RESULTS FOR 1,2-; 1,3-; AND 1,4-DICHLOROBENZ

WERE GENERATED FROM THE SVOC (8270) ANALYTICAL RUN.

BKG VOCs. (8240+11) Chlorogethers Broscomathers Viry! chloride Chlorogethers (1, 1-0) ichlorogethers (1, 2-0) ichlorogethers (1, 1-1) ichlorogethers (1, 1-1) ichlorogethers (1, 1-1) ichlorogethers (1, 1-1) ichlorogethers (1, 1-1) ichlorogethers (2, 1-1) ichlorogethers (3, 1-1) ichlorogethers (4, 1, 2-1) ichlorogethers (1, 1, 1-1) ichlorogethers (1, 1, 1-1) ichlorogethers (1, 1, 1-1) ichlorogethers (1, 1, 1-1) ichlorogethers (1, 1, 1-1) ichlorogethers (1, 1, 1-1) ichlorogethers (1, 1, 1-1) ichlorogethers (1, 1, 1-1) ichlorogethers (1, 1, 1-1) ichlorogethers (1, 1, 1-1) ichlorogethers (1, 1, 1, 1-1) ichlorogethers (1, 1, 1, 1-1) ichlorogethers (1, 1, 1, 1-1) ichlorogethers (1, 1, 1-1) ichlorogethers (1, 1-1) ichloroget	Lab Sample Number: Site Locator Collect Date:
20000000000000000000000000000000000000	R8725005 RFADATA F 56MH001S T 10-SEP-94 VALUE QUAL UNITS DL

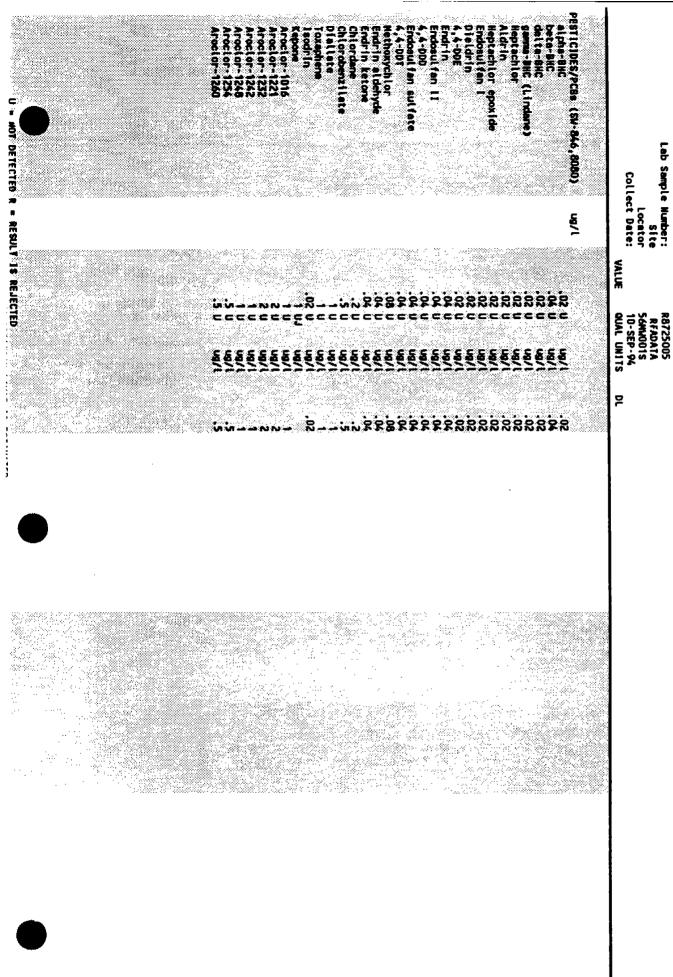
Lab Sampie Number: Site Locator Collect Date:	ber: Site site: VALUE	R8725005 RFADATA S6MA0018 10-SEP-94 QUAL UNITS	DL
Anthracese Dj-n-butylphthelate Fluorantheme		1000	
37			; 23 5 5
Benzo(a) anthrateme Chrysens bis(2+Ethylhexyl)phthalate		ccc	5 55
phthelate wranthere		:cc	\$ 8 5
Coranthena		-=-	582
Dibent(a, h)anthracera Benzo(g, h, i)perylena		===	566
Hethyl methanasulfonate Ethyl methanasulfonate			363
H-Mitrosopiperidine Phenyl-tert-butylasine 2.6-Dichlorophenol		CEC	- 45 E
M-Nitroso-di-n-butylamine N-Nitrosopyrrolidina		CCC	555
Benzidine 1,2,4,5-Tetrachlorabenzene		CEE	
1-Haph thy Leading 2-Kaph thy Leading 2-Kaph thy Leading 2-3-4-5-1 at rach lorocharol		ece	- 556 - 556
<u>.</u>		ccc	. 55 10 6 6 6
p-(D) sethyl asino) azobarzene 7, 12-b i sethyl beru (A) Anthrocese 3-techyl chol anthroces		cec	ಕಕಕಣ
Pyridina a:Witroscomethylethylemina W:Witroscomorpholina			S558
o-Toluidine Hesechloropene Hesechloropene Phonylenediselne		===	5882
legest role 1, 4-lieghthoguingre 1, 3-bini trobensene Cultifor- or roll uiding	-		44 8 8
1,3,5-Trinitrabenzere 4:Nitroquinoting-1-mide			Ē

RFA	
_	NAVSTA
Water	MAYPOR
Dete	7

Lab Sample Number: Site Locator Collect Date:

R8725005 RFADATA 56MJ001S 10-SEP-94 QUAL UNITS

Planarithrana	Hexacht or obentene	4-Bromophenyt-phenylether	1 2-5 inhany hydraxing	4,6-9 initro-2-methylphenol	4-Microsoftime	4-Chiprophenyl-phenylecher	Diethylphthalate	Diberzofuran		Acenaphthene	3-Hitrogni Line	2.6-Dinftrotolume	2-Hitroentline			3	Hexach Lorocyc Lopented and	A-Chloro-3-methylphenot	#exact producted and	Hephthelene	12.4-Trichlorobenzene	bie(2-Chtoroethoxy)methare	2-E-11-OCT-8-TO-1	I somerone	Hexachioroethane	B-H-(Cross-di-n-propy) onine	2-Mathy(phenol	1,2-Dichiorobenzers	1,4-Dichlorobenzene	1,3-Dichlarobenzene	Aniline Aniline bis (2-Chloroethyl) ether	Phenoi		
			• •				. c	در (ه)	= C			5.	5.5	: c	E .				10 C	S 8	10 c	~ {	 	C		5,		<u> </u>	5 i	5.5 	= 9		5,1	A 1990 Company of the



NAVSTA NAYPORT RFA Ground Water Data

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HIT IS ESTIMATED ANALYTICAL RUN HIT IS ESTIMATED FROM THE SYDC (8270) ANALYTICAL RUN

NAVSTA MAYPORT RFA Ground Water Data

Lab Sample Number: Site Locator Collect Date:

Collect Date:	Locator	Site	Lab Sample Number:	
10-SEP-94	56MW001S	READATA	R8724005	

VALUE

SILIND TYPE

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TOTAL PETROLEUM HYDROCARBONS Total petroleum hydrocarbon	P [±]	COLOR Color	GROURD WATER QUALITY Alkalinity as CaCO3 Ammonia-N Chloride Hardness as CaCO3 Nitrate/Nitrite-N Oil and Grease Phosphorous-P, Total Sulfate Sulfate Total Dissolved Solids Total Organic Carbon
mg/t	units	APHA	19 / L
•	6.71	120	283 44.3 300 .48 .50 50 2.4 2.2 2.2
)/Bw	units	APHA	1/8w 1/8w 1/8w 1/8w 1/8w 1/8w 1/8w 1/8w

 $\lambda_{ij} \max_{i \in \mathcal{I}_{ij}} (1 + \lambda_{ij} \omega_{ij}) \lambda_{ij} + \lambda_{ij} \omega_{ij}$

Lab Sample Number: Site Locator Collect Date: VALUE	G WATER METALS US/1 Arcisory Arasnic Barlum Bervil ium	Cadalium Cale Ium Chronitum	Conso		Notice!	solium 240	
R8726005 RFADATA S6MM001S 10-SEP-94 ALUE QUAL UNITS DL	9.7 ± 49/1 19/1 - 19/1			36100 ug/l	2 8 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	240000 Ug/1 1/8/4 U 00002	3.8 L 49/1

) R = RESULT 18 REJECTED
LINE UJ = REPORTED QUANTITATION LINIT IS ESTIMATED
LISTINGS OF RESULTS FOR 1.2-; 1,3-; AND 1,4-DICHLOROBENZENE WERE GENERATED FRO

SVOC (8270) ANALYTICAL RUN.

		RFA Surface Soil Data		
Lab Sample Mumber: Site Locator Collect Date:	RB271001 RFADATA F 1955001 T 30-JUN-94 VALUE QUAL UNITS DL	R8271002 RFADATA 19850010 30-JUN-94 VALUE QUAL UNITS DI	RB271003 RFADATA 19SS002 30-JUM-94 VALUE QUAL UNITS DL	R8271004 RFADATA 195S003 30-JUN-94 VALUE QUAL UNITS DL
3-Chioropropene Acetonitrile	ខ្លីភ	5 UJ ug/kg 100 U ug/kg	100 100 U 100/kg 100	5 U ug/kg 5
Chioropreme Methachylonitrile Methyl methacrylate		10 U Ug/kg	5 5 U 16/kg 5	5 U ug/kg 5
Pantachloroethama Propionitrile Vinyl acetate	10 U. 48/Kg 10 10 U. 48/Kg 10	10 UJ Ug/kg 10 U Ug/kg	10 U 48/49 10 10 U 48/49 10 U 48/	100 U ug/kg 100

NAVSTA MAYPORT

RFA	
Surface	NASOLV
Soil	3
Date	-

Lab	Lab Sample Number: Site Locator Collect Date:	R8271001 RFADATA 1955001 30-JUN-94 VALUE OKAL UNITS DL	R8271002 RFADATA 1985001D 30-JUN-94 VALUE QUAL UNITS	R8271003 RFADATA 1985002 30-JUH-9 DL VALUE QUAL UNI	TS P	R8271004 RFADATA 1988003 30-JUN-94 VALUE QUAL UNITS	۶
	i						
Chi orome thans	9/4	10 U 46/kg	10 10 U ug/kg	10 10 10 10 10		10 U ug/kg 10 U ug/kg	5 5
Viryl chloride		5 5 6	5 5 c c	10 10 10 10 10 10	49/kg 10	10 U Ug/kg	= =
Hethylene chipride		5 U 49/kg	- - - -		16/kg	5 U ug/kg	≐ ∽
Carbon disulfide		5 C 49/kg			19/kg	5 C 49/kg	n un d
1,1-Dichtoroethene		2 U 19/19	5	 	\$ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	5 U ug/kg	UT U
1, 2-Dichlaroetherne (tatel)				л (л л (л г С	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	5 U ug/kg	. ·
1,2-Dichloroethane		2 (4/6)	C (С.	5 × 5	C 6	y.
2-Butanone		10 UJ Ug/kg	5 10 UJ Ug/kg	5 5 10 10 10	5 × 5	5 U ug/kg	5
Carbon tetrachloride		5 - 50/6	5 = ug/6	n un	8	5 U ug/kg	ر د د
1,2-Dichtoropropane	Property of the second	S C S / Kg	S C Ug/kg		52	5 C C C C C C C C C C C C C C C C C C C	n (J) (
Trichloroethere		5 U 10/76	5 U ug/kg	. G.	5 Kg 2	5 U ug/kg	, (, ,
Dibramoch Lorgane thene			5 U ug/kg			5 U ug/kg	.
	111 (1) 20 (10) - 200 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		5 U Ug/kg	7 (7) 7 (7)			<i>,</i> , ,
Brosofors - Landropt opens		500	-	y.		5 U ug/kg	; u,
4-Wethyl-Z-pentahone			10 10 0 09/kg	10 C		10 E ug/kg	5 6
Tetrachloroethene		5 U V9/kg	SU ug/kg	5 5 9 4 5 5		5 U ug/kg	
Toluene		S D 18/2	5 Ug/kg	5 S		5 U vg/kg	yı vı
Ethylbenzera		5 0 16/2	5 U ug/kg		50	5 li ug/kg	
Styrene (total)		5 U vg/kg	5 U 49/kg	VA U	5/66 6/66	5 U ug/kg	. .
Trichlorofluoromethane		5 L W/G	5 U ug/kg	55 S		5 C ug/kg	u, u
Acrolein			100 U ug/kg	100 100 0	196/Kg 198	100 UJ ug/kg	
1,4-Dichlorobenzene			18 s	190 5 490 U		690 U Ug/kg	5 8
Dibramathane		C 49/69	, U.		5	= ⊄	ĝ.,
?_Z-Dichlorobenzene Z-Chiorbethylvinylether		10 U up/kg	10 U Ug/kg	10 10 U	10	10 U Ug/kg	. = 5
Ethyl methocrylate 1,2,3-frichloropropume		5 U 49/kg	~ ~		19/kg	5 U ug/kg	, U, U
	3	20 P 10/6	210 P ug/kg		19/xg	210 R ug/kg	Ų
1,1,1,2-Tetrachioroethere		-	= ;		5	5 U Ug/kg	5 U7
77	3	5 U 49/kg	· c g		10/kg	55 C Ug/kg	∽ ē
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DL	R8271007 RFADATA 1988006 30-JUN-94 VALUE QUAL UNITS	DL V	71-94 1-94 1-94	R8271006 RFADATA 19SS005 30-JUN-94 QUAL UNITS	VALUE	P.	R8271005 RFADATA 19SS004 30-JUN-94 QUAL UNITS		AVTRE	Lab Sample Number: Site Locator Collect Date:	
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11) ug/k	Lab Sample Number: Site Locator Collect Date:	
	AVINE	
11 Jug/kg	RB271005 RFADATA 19SS004 30-JUN-94 QUAL UNITS	
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	VALUE	RFA
10 u ug/kg	R8271006 RFADATA 19SS005 30-JUN-94 QUAL UNITS	NAVSTA MAYPORT RFA Surface Soil Data
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io u va/ka	R8271007 RFADATA 19SS006 30-JUN-94 QUAL UNITS	
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	4		ų.	Dibrossathers
	= =		110	Acrylonitrile
2 U 49/49	10 UJ Ug/kg	56/20		Indomethers
	100 UJ Ug/kg	5/6	10 5	1,3-01chlarobentame
55	: = 0		.uy C C	Xylenea (total) Trichlorof(uoromethere
S U W/19	5 U Ug/kg	6/2		Ethyl benzena Styrena
	5 U Ug/kg		9 G	Chiorobenzene
5 6 / 6	5 U ug/kg		7 Un (1,1,2,2-Tetrachloroethere
2/44 200 = 18/48	c			2-Hexarona
10 m 19/49	5 U ug/kg	60/kg		
5 4/4	- -	50/66 50/66		Benzene
	5 C ug/kg	59/69 151		1.1.2 Trickloromethere
		50/2		cia-1,3-0)chloropropens Trichloroethene
2			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,2.0 ichioropropane
5 C ug/kg				
10 LL 19/kg	=	9 (-) 	9	2-Butanone
25 U U9/10		6/kg		Chloroform
2 U 49/60			V V V	1 - Dichloroethene
50/E				Cerbon disulfide
	10 U Ug/kg	56/66 11.5	100	Methylene chloride
	: = =	U9/kg		Vinyl chloride Chloroethame
10 U 40/40 10	10 U Ug/kg	11 11 11 11 11 11 11 11 11 11 11 11 11		Chi or arrecthans
	.			BKG VOCA (8240+11)

Anthracena Di-n-Butylphthalate	=											
- 重量的放射的控制的 医眼球 经股份股份 医多克里氏 医多克里氏 医多克里氏 医多克里氏	260€	& & & &	68 88 80	989 u	ug/kg ug/kg	68	0 000 0 000 0 000	₩/kg	690 990	บ 069 ก 069	ug/kg	88
Pyrene	==	₹ 8 8	& &	680 U	بو/دو 19/دو	& &	690 E	5 5 2 3	696 696 696	690 - C	بور و/جو	%
autylbenzylphthelete		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	- - - - - - - - - - - - - - - - - - -	1 680 2 U	6/6 6/6	.	38 ==	3	38	. 690 - 690		88
Benzo(a)anthracane	= =	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	& £	- 083 - 083	ug/kg	680 680	690 C	₽ 26	8	969 146 146 146	يو/يو مو/يو	696 660
7700794978 (77794978	260 = C) 8	280 	6/kg	680	^66 660 	. 6/6 6/6	28	690 - C		88
Di-n-octylphthalate	= •	<u> </u>	88	088 7	6/6 6/2	&	\$ 2 C	5/ <u>5</u>	697 697	690	و و م	% 3
Benzo(b) (Lucrenthene	-		88	686 - C	-6/kg	88	38	6/kg	38	ž V	-6/kg	Ì
86720(8)/C416	& & E = E	\$ \$	& 6 & 6 & 6	686 U	50/kg	& &	698 200	5 5 5	\$ 50 60 70	69 8 E C	5 6/kg	8 8
Indeno(1,2,3-cd)pyrame	-	15/Kg	8	086 U	پو/kg	8	690 L	<u>چ</u>	69	690 U	19/kg	690
Dibenz(a,h)enthrecene	} &		} &	686 686 686 686	5 6 6		2	E	32	690 = ==	ج الم	8
2.Picoline	= (\$ { }	3300 3300	3300 U	49/kg	3300	3300 0	\$ { 2.2	33 S	3300 U	5/6 6/2	3300
Mathy L mathemasul formite		S	8 8	680 2 E	5	8	3 3 3 5 5	₩ 6	33	\$ 6	4 0/kg	8
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Prendictory but Classics	71 008. 71 080		33 8	3300	5 4 /s	3300	73 696 2 696 2 5	2 2 3	38	7 696 2 96 2 96		1100
2,6-Dichlarophenal	=	9/kg	8	680 U	ug/kg	680	69 U	6/6 6/6	8	090 U	6/kg	690
W-Nitrosociethylanine	& & & & & & & & & & & & & & & & & & &	5 & 5 &	& £	66 66 C	₩ ₩ ₩	& &	88 88		} } }	690 - C	40/kg	88
W-Witrosopyrrolidine	:=	£	<u>&</u>		ug/kg	&	8	\$/ 2	3	690	-9/kg	690
1,2,6,5-Tetrachlorobenzere	3300 0	\$ & &	33 8	3300 U	-9/kg	3300	3300 U	5 5 2 2	5	3300 C		3300
Pentach Lorobenzene	3300 W			3300 0 00 1 0	5/kg	138 88	738 200 =		35 88	130 200 200 200 200 200 200 200 200 200 2	<u>د</u> د د د	3300
2-Haphthylemine	-	\$	3300	3300 U	ug/kg	330	3300 U	\$ { \$ { \$ { \$ { \$ { \$ { \$ { \$ { \$ { \$ {	21.08	3300 U	Ug/kg	3300
Phenacetin	680 4	2 <u>2</u>	& & &	680 C	رور ورازو ورازو	88		5 & 2 &	\$ <u>\$</u>	698 = C	يو/ والمراجع	\$ 8
4-Animobiphenyi	==	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \		3300 U	ج وراور	330	3300 U	\$: H	138 200 200	-6/g	300
		& &	& &	680 U	۵/ج م	& č			3 5	696 C C	5/6/20	968 200
p-(Dimethy) an (no) azobanzana		2	8	686 - C	P4/kg	8	\$ 3	E	3	88 88 E	-0/kg	8
3-Methylcholanthrame	680 E	€ € 5 &	6 2	680 U	ور مراجع مراجع	& &	\$ 3 S	5 <u>5</u>	23 23	\$ %	₩ 19/kg	% %
RYTIGES AND THE STATE OF THE ST	2300 E			3300 U	5 4 /kg	338		5 7.6) 3308	3300 U	ug/kg	3300
		\$!	8	680 U	ug/kg	8	690 U		8	690	F9/kg	8
o-Totulgine Hexachtoropropena	3300 U	\$ & \$ &	38 88	3300 U	5 5 2 2	3300			# . 2 2	3300 U	5/6 6/6	3500 0000
p-Phenyl enedicatine	Ę	E	3			1	3308 -	S / S	33000	73000 F	49/kg	3
laceafrois			3308	3300 U	6/kg	338	3300 1	£ &	338 88	3300 U	6/2 2	3300
1,4-Heathcheguinene	==	(E	68000	68000 U	6	6000	\$8 = =		\$ 8	69000 U	5 6 6	6906 8006
W-Eigro-o-toluidine	\$8 CC	E E	8 8	600 C	6/kg	& 8	2 2 2	£ {	3 3	690 C	و اوران اوران	§ §
1.3,5-Trinitrobergers 4-Witroculostine-1-oxide	22	6 6 2 6		rn 0005£ rn 089	5 6/kg	ir gester	표 2008 도도	£ &		33000 LT	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
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	Lab		ALUE	R8271001 RFADATA 19SS001 30-JUN-94 QUAL UNITS	2	ŠĀ.	R6271002 RFADATA 19SS001D 30-JUN-94	2	<u>\$</u>	R8271003 RFADATA 1988002 30-JUN-94	2		R8271004 RFADATA 1988003 30-JUN-94	2
	: \$40C (8270+24)						:	- 100 - schools						}
Colored Colo	henot		388		& &	2 2 2		68	\$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50		<u>\$</u>		'	690 690
Color Colo	. 42.539		88	- 49/49 - 49/49	<u>\$</u>	& &	- 5	&	8 8		.		_	À
Contraction Cold	3-Dichiorobenzene		, a va		a un		= =	7 (5)		5/2				
Committed Comm	enzyl Alcohol			U (6)/kg	& ,	&	= (66,	88	ر 19/4	%	690	~ vg/kg	\$ 8
Descriptivistics COO	-Methylphenol		<u>&</u> ,		8.,	&	= =	2	<u> </u>	=	38	868	0/\Q	88
Color Colo	ois(2-Chloroisopropyl)e	3	.	\$ 2	88	8	=	680	8	c 49/69	\$	690	ug/kg	690
Second S	exachlorpethane		&	2/2 2/2	6	& &	C	88			\$ \$	6 8	ue/kg	\$ \$
Second Companies Second Comp	trobenzene		2		} } }	<u></u>	= =	3		Ţ	38	88	ug/kg	69
Second Commercial Co	Nitrophenol		8	- S	8	68	==	8	9	0 (g) (g)	28	698		690
The problements of the control waying send send waying se	enzoic acid		3300	\$ \f	3300	330	_ (3300	3300	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	# 88	3300	5 LQ/kg	3500
Second S	4-01chlorophenol		& 8 8 8	- 12/2 - 12/2 - 12/2	& &	& &	= =	& &) 200) 2	690	10/kg	3 8
Friend Holden Control	,2,6-Trichtorobenzene		2 2 2 2	14/g) (8)	2	= =	8	8	ug/kg	3	8	- Le / kg	696
Thy priminal series source way're way're source way're source way're source way're source way're source way're source way're source way're source way're source way're source way're source way're source way're source way're source way're source way're source way're source way're way're way're way're way're way're way're way're way're way're way're way	Chioroanii ine		88	19/kg		6	Έ'	Za pi	<u>\$</u>		3		_	940
Commonications	Chiore-3-methylphenol		8	- 6/Kg	& &	66	C C	<u>&</u> &	\$	C 49/Kg	\$ \$	\$ \$	U9/kg	<u>\$</u>
Continue Continue	phthalene cyclopented		& &		& &	<u> </u>	= C	3	28		.	88	بر ورا	8
Same Same	.+.6-Irichlorophemol		<u> </u>	- up/kg	<u>&</u>	2	= =	8	3	- E	.	690	ue/ka	8
1300 U US/Kg	4,5-Trichtorophenol		3300	- vg/kg	3300	3300	=	3300	3300		3300	3300 (- vg/kg	3300
Lumina	Hitrani Line		3300	19/kg	3300	3300	c c	3300	3300	5 46/26 26/26	و و و	3300 1	ug/kg	26 68 68 68
3300	6-Dinitrotolume		8 8	~ ~ ~	£	680	c c	& &	28 28		. 28			\$ 6
### ### ### ### ### ### ### ### ### ##	- Mitroanilina		27.7		È	3300	= E	.						: 8
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Color Colo	benzofuren		8	5 £	82	680	- -	6 86	٠ 82	5 <u>5</u> 5	28	%90 C	- ug/kg	& 53 80 80 80 80 80 80 80 80 80 80 80 80 80
phenylether 650 U ug/kg 680 680 U ug/kg 680 690 U ug/kg 680 680 U ug/kg 680 680 U ug/kg 680 680 U ug/kg 680 680 U ug/kg 680 680 U ug/kg 680 680 U ug/kg 680 680 U ug/kg 690 690 U ug/kg 690 690 U ug/kg 690 690 U ug/kg 690 690 U ug/kg 690 690 U ug/kg 690 690 U ug/kg 680 680 U ug/kg 680 680 U ug/kg 680 680 U ug/kg 680 680 U ug/kg 680 680 U ug/kg 690 690 U ug/kg 690 690 U ug/kg 680 680 U ug/kg 680 680 U ug/kg 690 69	lethylphthelete		&		&	6 g	- -	2 6	23		<u> </u>	8		\$ 8
100 100	-Chierophenyl-phanyleti Luorene	3	88	5.5	22	26	= =	3	38) (8)	690	6/6	\$
iodipherylasine (1) 650 U ug/kg 650 650 U ug/kg	70.2	3	358 885		3300	3300	E =	3300	3000		3300		•	3300
### 1 ### 1 ### 1 ### 1 ### 1 ### 1 ### 1 ### 1 ### 1 #### 1 #### 1 #### 1 #### 1 ##### 1 ##### 1 ######	-Mitrosodiphenylesine	3	8		§	686	: ⊂	&	8	- S/S	696	690	ug/kg	690
14 3300 U 149/kg 680 680 U 149/kg 680 690 U 149/kg 690 690 U 149/kg 1300 3300 U 149/kg 3300 U 149/kg 3300 U 149/kg 3300 U 149/kg 3300 U 149/kg 3300 U 149/kg 680 680 U 149/kg 690 690 U 149/kg	-Bromophenyl-phenylethu		8		£8	688	C C	& &	\$ 2	- € 8	**************************************	690 L	50/kg	§ §
U 49/Kg 680 U 49/kg 680 €90 U 49/kg 690 690 U 49/kg	entachtorophenot		36 8	2/g	3300	3300	C C	3300	3300 (_ & & & &	56 56 56 56 56 56 56 56 56 56 56 56 56 5	3300 U	5 6/kg	3300 690
					9	900	e /g/	3	2	- Ug/Kg	690	690 U	ug/kg	690

			RFA Surface Soil Data	Data		
Leb Semple Number: Site Locator Collect Date:	R8271005 RFADATA 1955004 30-JUN-94 VALUE QUAL UNITS	P	R8271006 RFADATA 1988005 30-JUN-94 VALUE QUAL UNITS	DL VALUE	RB271007 RFADATA 1988006 30-JUN-94 UE QUAL UNITS	D C
					7.154) 4.1578	
BKG SVOC (8270+24) ug/kg			=			
N·Witrasodimethylamine Phenoi		\$90 600 600 600 600 600 600 600 600 600 6		690	680 U ug/kg	88
Aniline bis (2-Chlorpethyl) ether	69/ UJ Ug/kg	690	690 U Ug/kg		۲į	
	. c		= =			
1,4-Dichlorobenzene	690 u ug/kg		690 U ug/kg		= •	
1, 2-Dichlorobenzera	=		: =	3 5	- -	
bis(2-Chloroisopropyl)ether	69/ U U U 09/ Kg		690 U ug/kg	698	- c	
E-Eltroso-di-n-propylemine			= =	698	= =	
Mitrobenzena	690 U 197/kg	698	C	690	= :	
1 sophorone	690 U 09746		690 U ug/kg	690		2000 1943 1955
2,4-0 inethylphenol			= = :	690	==:	
beazore acid	_ =	690 690	- (690		60
2.4-pichtorophenol	690 U Ug/kg		690 U ug/kg	690	==	200
2-prime land	==		= =	88	ce :	200
Hexachlorobutadiene	= 5		690 U ug/kg	38	==	£ £
		690	= =	88		38
2,4,6-If ich (or ophera)	- (: - (690		8
03methylphthetete		1 (4) 26 (2)	C C	3300	C 6	3300
2: Chiloroyaph the lene			690 U ug/kg 3300 U ug/kg		- -	
Acenaphthylario			= =			.
3-Nitrogniline	3300 UJ 49/kg	v s d s	C C	3300	:=(
Acenaph there	25	<u>8</u> 8	3300 UJ Ug/kg		= -	8
6-11 (copherol		3300	= = ;	. — \	3300 U ug/kg	
A 4-Dinitrotolumn			690 U Ug/kg	\$ 690 6 00 6 00		3 88
Diethylphthelate	Jan n nee	77G	ta/fin n nka	70		1
				8.877 7.83 8.83		

Lab Sample Kumber: Site Locator Collect Date:	VALUE	READATA READATA 19SS001 30-JUN-94 QUAL UNITS DL	VALUE	R8271002 RFADATA 19SS001D 30-JUN-94 QUAL UNITS	OL VALUE	R8271003 RFADATA 19SS002 30-JUN-94 QUAL UNITS	9	RB.	R8271004 RFADATA 19SS003 30-JUN-94 QUAL UNITS	P.
thepyrílene 3'-ùimethylbenzidine	3300 U 080 U	₩9/kg	3300 330 680 68	, c c	3300 33 60 6	, U	690	3300 U 690 U		3300 690
xachlorophene smite Chlorophenol	3300 U 686 U	\$ \$ \$	3300 3300 680 680	0 C 49/kg	3300 3300 680 690	8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	30E 00E	3300 U	668 668	3300 690 690
# 6-Methylphenol (2) Methylphenol	, 2			c			\$		6/kg	•
phenylamine xachloropropene Acetylaminofluoreme	7300 U		3300 3300 I 680 680 I	~C E	3300 33 680 6	00 L mg/kg	698	3300 U	₩ ₩ ₩	3300 690

RESULT 18 REJECTED J = REPORTED QUANTITATION LIMIT IS ESTIMATED GS OF RESULTS FOR 1,2-; 1,3-; AND 1,4-DICHLOROBENZENE WERE GENERATED FROM THE SVOC (8270) ANALYTICAL RUN.

TION LIMIT IS ESTIMATED HERE GENERATED FROM THE SVOC (8270) ANALYTICAL RUN.

Lab Sample Number: Site Locator Collect Date:	R8271005 RFADATA 1988004 30-JUN-94 VALUE QUAL UNITS	DL VALUE 0	R8271006 RFADATA 1955005 30-JUN-94 QUAL UNITS DE	R827 RFA 19S 30-J VALUE QUAL	R8271007 RFADATA 1955006 30-JUN-94 QUAL UNITS DL
o-Toluidine Nexachioropropene D-Phenylenediamine	690 U vg/kg 3300 U vg/kg 33000 UJ vg/kg	. 690 33000 U 3000 3300 U	ug/kg 690 ug/kg 3300 ug/kg 33000	90 33000 U 00 3300 U 00 300 U	.ug/kg 53000 .ug/kg 3300
Sefroie Jeografiole	3300 U 19/kg	3300 3300 L			
1,4-Maghthoquinona	69000 U 49/kg			e die Gebe	
5-Nicro-o-toluidine	690 W W2/kg				
4-Nitroguinoline-1-oxide Methapyriland	33000 UJ			rn 00055 rn 00055	
3,3*	33000 R Vg/kg	690 33000 L			
Aramite 2-Chlorophenol	3300 U ug/kg	3300 3300 U		300 3300 U	
3- & 4-Hethylphenol (2)	690 U vg/kg				
Hexashi oropropene 2-Acety Laminof Lucrene	3300 U 49/kg	3300 3300 U 690 0	ug/kg 3	300 3300 U	

NAVSTA MAYPORT
RFA Surface Soil Data

Cold Cold	Color Colo	Lab Sample Number: Site Locator Collect Date:	AVINE 3 - 15	RB271005 RFADATA 19SS004 30-JUN-94 QUAL UNITS	٤	R82 RI 15 30- VALUE QUJ	R8271006 RFADATA 19SS005 30-JUN-94 QUAL UNITS	DL VI	VALUE 90.	RBZ71007 RFADATA 19SS006 30-JUN-94 QUAL UNITS	D.
Comparison Com	Color Colo	4-Chigrophenyl-phenylether fluorene	1.00 000 000		069 069		ug/kg ug/kg	3300 3300	330 680 60 60 60 60 60 60 60 60 60 60 60 60 60	64/64 64/64	3300 3300
Comparison Control C	Transition (1) 600 U	A-Mitroeniline	المراكلاتين	•			49/kg		3300 L	- - - -	
Color Colo	Trine 3000 U 42/42 5000 U 42	S-Nitropodiphenylamine (1)	W 10		8			3	2 2 2 2 2 2	- 46/62 6/62	<u> </u>
Trickeler	### 1500 U ##### 1500 U ##### 1500 U ##################################	1.2-0 phony hydrax ine	26,25) 198	700 C	- 5/kg	690 000	<u>8</u>	5/6	& !
1000	1300	4-Bromophenyt-phenylether	, (NA)		\$ 6	690 c	63/63 63/63	690	680 U	Fa/kg	2
### SECOLUL WAYES ### SECOLUL W	Color Colo	Hexacht orobenzene			3300		py/kg	3300	3300 U	\$/\$	3300
\$00 U	\$500 U Walking \$500 U Walking \$500 U Walking \$500 U Walking \$500 U Walking \$500 U Walking \$500 U Walking \$500 U Walking \$500 U Walking \$500 U Walking \$500 U Walking \$500 U Walking \$500 U Walking \$500 U Walking \$500 U Walking \$500 U Walking \$500 U	Phenanthrene			690	-	. ug/kg) 00	2 8 2 8 2 5	6 %	& 6 & 6
\$500 U 44/Kg \$500 \$500 U 44/Kg	\$60 U	Anthrece's) 8	50/20) 92		ug/kg	690	& (C	- E	686
1000	\$600 U \$\frac{1}{2}\text{in}{\tint{in}{\text{in}{\text{in}{\text{in}{\text{in}{\text{in}{i	Di-n-Butylphthalata		: 2) } }		ug/kg	690	680 L	9/G	88
1,000 1,00	1,000 1,00	Fluoranthane	690		<u></u>		ug/kg	690	580 E	ug/kg) (2)
1,000	\$50 U Wayka	TYTOTA	690 L	- 19/Kg	690	690 U	₩ 6	690	86 96 97	5/2	100
#### 600 600 ##### 600 600 ##########	1000	3.3'-Dichlorobenzidine	1,00 (8	1400 0	6/kg	<u> </u>	290 E	50/kg	6 6
\$500 U	#### 600 600 ##### 600 600 ##### 600 600 ##########		690	- S - S - S - S - S - S - S - S - S - S	38	690	6/kg	690	6 6	٤ 2	660
\$500 U	600 U 44/Kg 600 U	COTYGGO	690		6	n 069	ug/kg	690	66 68 =	ug/kg	.
### 690 U Walke 690 690 U Walk	### 600 U Wa/kg 600 600 U Wa/k	Disprocrytohenelere	1 069	- 40/kg	698	1 069 1 069	ug/kg	96			<u>}</u>
### 690 U USA/RE 690 690 U USA/RE 690 680 U USA/RE 690 69	### 650 U Wa/kg 650 650 U Wa/kg 650 650 U Wa/kg 650 650 U Wa/kg 650 650 U Wa/kg 650 650 U Wa/kg 650 650 U Wa/kg 650 650 U Wa/kg 650 650 U Wa/kg 650 650 U Wa/kg 650 650 U Wa/kg 650 650 U Wa/kg 650 650 U Wa/kg 650 650 U Wa/kg 650 650 U Wa/kg 650 650 U Wa/kg 650 650 U Wa/kg 650 0 Wa/kg 650 U Wa/kg 650 0 Wa/kg 650 U Wa/kg 650 0 Wa/kg 650 U Wa/kg 650 0 Wa/kg 650 U Wa/k	Benzo(b) (Lucrentheme	690	- 5/kg) }) 	- 6/kg	690	& & &		68
Impress	Impress 650 1	Benzo(k)fluoranthene	88	- (g/kg	200	090 U	6/kg	690	680 U	<u>چ</u>	686
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		N-Nitrodomorpholine	690	₩.	698	090 U	ug/kg	8	68	- - -	2

NAVSTA MAYPORT RFA Surface Soil Data

99	Araclar-1232 Araclar-1242 Araclar-1248	Kepane Araci ar-1016 Araci ar-1221	Toughters Toughters	Chlorobenzilate	Endrin ketone	4.4. DDT an sulfate	Endosul fan II	4,4-00E	Heptechlor spaxide Endosulten I	Heptach Lor Aldrin	delta-BRC (Lindana)	PESTICIDES/PCBs (SM:846,8080) alpha-BHC	
	CCC		35 U 19/kg							.7 U ug/kg	7 U 46/kg	υσ/kg • .7 μ ωσ/kg	
17 u	353 CCC	125t	35 35 U Ug/kg	7 7 U	= = c		c c						
77 77 17 U	**************************************	125; 126;	35 34 U ug/kg	7 6.9 U	1.4		1.4	1.4	7	. 7 . 69 U	.7 .69	. 7 . 69 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1	
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RFA Surface Soil Data NAVSTA HAYPORT

Lab Sample Number:

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RB271004 RFADATA 19SS003 30-JUN-94 QUAL UNITS

NÄVSTA MAYPORT RFA Surface Soil Data

BKG SDILE METALS Antimony Arsenic Berlium Codmium Chromium Silver Thailium Varnadium Zinc	
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NAVSTA MAYPORT RFA Surface Soil Data

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By/6u	Lab Sample Number: Site Locator Collect Date:
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RFA Surface Soil Data

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ANALYTICAL RUN.

	Lab Sample Number: Site Locator Collect Date:	VALUE	R8271008 RFADATA 198S001 30-JUN-94 QUAL UNITS DL	VALUE	R8271009 RFADATA 1985001D 30-JUN-94 E QUAL UNITS D	DL VALUE	R8271010 RFADATA 1985002 30-JUN-94 QUAL UNITS DL	VALUE	R5271011 RFADATA 1988003 30-JUR-94 QUAL UNITS	DL	1
5-Chieropropene Acetonitrila		110 U	ng/kg	110 110 U		110 135	u wg/kg	110 120	U ug/kg	120	
Methacrylonitrile Methyl methacrylate			668	16			□ Ug/kg:	ع ل		ಸ್ಕ	
Pantachloroethana Propionitrile Vinyi acetate			₩9/K9	110		110	U 19/kg	110 120	ug/kg	120 12	

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Chioromethame Virgic chioride Chioromethame Virgic chioride Chioroethame Nethylene chioride Acetone Chioroethame (1, - Dichloroethame (1, 2-Dichloroethame (1, 1, - Trichloroethame (1, 1, - Trichloromethame (1, 1, - Trichloromethame (1, 2-Dichloromethame (1, 2-Dichloromethame (1, 2-Dichloromethame (1, 2-Trichloromethame (1, 2-Dichloromethame (1, 2-Dichloro	Lab Sample Number: Site Locator Collect Date:
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NAVSTA MAYPORT RFA Soil Boring Data

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2.4-0 inj trotolumne Diethylphthelate	2,4-Dinitropheral	3-Hitroaniline	2,6-Dinitrotoluene	2-Mitroaniline	2,4,5-Trichloropherol	Dimethylphthalate	Haxachtorocycl opentadiene	4-Chioro-3-methylphmol	Hexacht or obutadians	Reported	1,2,4-Trichlorobenzene	bis(2-Chloroethoxy)methane	BOTTO C BOLD	2-Mitrophenol	Taophorona	Hexach-toroethane	N-Nitroso-di-n-propylamine	bis(2-Chloroisopropyl)ether	1, 2-Dichlorobenzena	Genzyl Alcohol	1 A-Dichiorobenzene	bia (2-Chigroethyl) ether		Phone Control of the	
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Lab Sample Number: Site Locator Collect Date:	VALUE	R8271012 RFADATA 1985004 30-JUN-94 QUAL UNITS)12 11A 1-94 1-11S	만	VALUE	R8271013 RFADATA 198S005 30-JUN-9 QUAL UNI	R8271013 RFADATA 198S05 30-JUN-94 DUAL UNITS	DL.	VALUE	R8271014 RFADATA 1985006 30-JUN-94 QUAL UNITS		E.
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NAVSTA MAYPORT RFA Boring Soil Data

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R8271013 RFADATA 1985005 30-JUN-94 QUAL UNITS

NAVSTA MAYPORT
RFA Soil Boring Data

Lab Sample Number: Site Locator Collect Date:

R8271012 RFADATA 1985004 30-JUN-94 QUAL UNITS

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R8271014 RFADATA 1985006 30-JUN-94 QUAL UNITS

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Lab Sample Number: Site Locator Collect Date:

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R8271011 RFADATA 1985003 30-JUN-94 QUAL UNITS

R8271010 RFADATA 198SD02 30-JUN-94 QUAL UNITS

R8271009 RFADATA 19850010 30-JUN-94 QUAL UNITS

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Lab Sample Humber: Site Locator Collect Date:

R8271012 RFADATA 1985004 30-JUN-94 QUAL UNITS

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RB271014 RFADATA 19BS006 30-JUN-94 QUAL UNITS

RB271013 RFADATA 19BS005 30-JUN-94 QUAL UNITS

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		RFA Sediment Data			
Lab Sample Number: Site Locator Collect Date:	R8272001 RFADATA 1950001 30-July 60115	RB272002 RFADATA 19SD001D 30-JUN-94 VALUE QUAL UNITS DL	R8272003 RFADATA 19SD002 30-JUN-94 VALUE QUAL UNITS DE	R8272004 RFADATA 19SD003 30-JUN-94 VALUE QUAL UNITS DL	
					•
eks voce (8240+11) ug/kg chloromethame	E U US/KG	<b>5</b> 77	12	12 U ug/kg 12 12 U ug/kg 12 12 U ug/kg 12	~~~
Viny! chloride Chloroethene	13 U CO/KO 13		2/60 2/46 2/46	12 U ug/kg 6 U ug/kg	6 N
Acetons Citionica		- 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	9/kg 0.9/kg	U 09/kg	~ 0~
1-Dickloroathana	6 U 49/kg	. <b></b>	6 C 6/2	U vg/kg	<b>о</b> о
1,2-Dichloroathena (total)	c=	<b>-</b> -	= = <		<b>~</b> ~
1, 2-Dichtoroethane	13 R 49/Kg	6 U ug/kg 12 R ug/kg	12 R 49/kg	2 09/kg	<b>-</b>
1,1,1-Friedleroethane	9 L M9/kg	6 U ug/kg	6 U 49/kg		<b>ው</b> ው
Broadich (or one thens	6 U V9/R9	6 th Ug/kg		<u>-</u> -	ውው
cie-1,3-9 ichloropropene	6 U Ug/kg	= = 0		<b>= =</b>	00
pibromochioromethane	:ce	6 U ug/kg	-	<b></b>	. 0. 0
trans-1, 3-bichloropropene	9 C 19/kg	<b>- -</b>	6 0 U ug/kg	6 U ug/kg	0.0
4-Methyl-2-pentahone	13 13 19/69	12 UJ Ug/kg	E	= E :	Φ.
Tetrachtorosthere	6 UJ wg/kg	6 UJ Ug/kg		- E	•
Tolugne	6 U Ug/kg	6 6U ug/kg	= = •	<b>&gt; &gt; &gt;</b> (1)	• •
Ethyl benzere	6 U wg/kg	6 6 U ug/kg		6 G (	<b>Ф Ф</b>
Nyleres (total)		0.0		- C	<b>~</b> ~
1,3-0 ich locabenzene		120 R		120 R ug/kg	<b>7</b>
Indose thene	860 U 49/kg 13	6.5	==	800 U ug/kg	800
Acryloniterile	U wg/kg	6 6 U ug/kg	- <b>-</b> ;	<b></b>	••
1,2-0 ichtproberzene 2-Chtoroethylvinylether		. 72	12 II.J. ug/kg	6 UJ 49/kg	
Ethyl methecrylate	9 KT - 14/VA	2	6 UJ wa/kg	25	
trans-1, 6-0 ich i oro-2-butene		240 s	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	240 R ug/kg 6 U ug/kg	•
	13 U 46/20 13 U 46/20	-	12 U W/Kg 12	12 U ug/kg	6 2
1.4-Dioxana	260 R ug/kg	240 m U978			
				- :	

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Lab Sample Number: Site Locator Collect Date:	R8272001 RFADATA RFADATA 19SD001 30-JUM-94 VALUE QUAL UNITS	118 92 1	R821 RFJ 1988 30	R8272002 RFADATA 19SD001D 30-JUN-94 QUAL UNITS	₽	R62 R7 19 30-	R6272003 RFADATA 19SD002 30-JUN-94 QUAL UNITS	PL &	R82 RF 19 30-	R8272004 RFADATA 19SD003 30-JUN-94 QUAL UNITS	무
Anthrecene Di-n-Butylphthelete	860 U U9/kg		790 c	ug/kg 19/kg	888	780 U 780 U 1087	n9/kg n9/kg n8/kg	780 780	800 U	ug/kg ug/kg	800 800 800
Pyrene	<b>.</b>			(g/kg	S S	88		ğğ	2 00 2 00 2 00 2 00	6/kg	2 2
Sutylbenzylphthelate	1700 U ug/kg	) (Sec. 1700	1600 U	64/kg	16 33 30 33	1600 L	\$ <del>\$</del> \$	<u>;</u>	1600	ug/kg	58
Benzo(a)anthrecare	==		8 8 = =	- W - W - W - W - W - W - W - W - W - W	88	788 	5 5 6 6	<b>3</b> 2	8 E	5 6 6 6	<b>8</b> 8
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Di-n-octy/phthelete	_			-0/kg	g S	2 2 2 3 3 3 3 3 3		<b>2</b> 2	2	- 40/20 - 60/20	88
Benzo(b) fluorenthene			7 7 7 6 C	5 é	3	786 C	£ {	88	800 C	5	8
Banzo(A)Pyrena	=		_	<b>10/kg</b>	8	78 8	₩/K	8	800	5 <del>6</del>	38
Indeno(1, 2, 3-cd) pyrene			7 20 	4/kg	33	78 28 -	5/ <u>5</u>	<b>Z</b>	800 C	6/6 6/3	8
Benzo(d.h. ) Derytene	= 1		790 U	49/kg	8	780 L	æ/æ	8	2 2 2 3 3 4	برو. وم/ارو	<b>.</b> 8
2-P-coline	==		7800 - C	6 /kg	38	785 88 C	6 & 2 &	288	800	5/2 2	88
meny sectioness forest	86 C		790 c	ug/kg	8	8 8 ==	\ \&	ğ	8 8 8 8	5 6/kg	3 8
Acetophenone idine	٤٠		790 EJ	₩ 10/kg	্	785 L	5 6	 	000 LJ	ug/kg	
Phenyl-rest-butylanine			3800 U		380 00 00	300 - 000 		72 S		5 6/6 6/6	<b>8</b> 8
2,0.0101010101111010111011101101	<b>C</b> (	49/kg 860	790	- kg	8	8	¥0/₹0	ğ	88	<b>Lg/kg</b>	<b>.</b> 8
N-Nitroeodiethylunine	860 U Vg/K	<b>ug/kg</b> 200	<b>7</b> 8	6/6 6/6	33	<b>Z</b>	€ 2 £	ğį	800 C	5/kg	88
Benz dine	Ξ		3800 UJ	<b>5 6</b>	<b>1</b>				1900 E	6 6 6 7	3900
Pentachlorobenzene	= (	4200	3800 U	40/kg	3000	3000 U	ug/kg	<b>36</b>	3900 U	ug/kg	3900
1-Rephthylemine	67 FT 6027	6/6 6	rn 008£	ج و مراجع	233 <b>33</b> 80223	3000 E	<b>&amp;</b> & & & & & & & & & & & & & & & & & &		7900 E	Ug/kg	
2,3,6,6-Tetrachlorophenol		STA ar Willia	<b>3</b>	- G	동	7 7 8 = C	<b>1 5 5 5 6 7 6 7 6 7 6 7 6 7 6 7 7 7 8 7 8 9 1 8 1 8 1 8 1 1 1 1 1 1 1 1 1 1</b>	8		5 6 6	
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Pronamide p-(n) imethy) anino) a zobanzene	200 C C E 8		75	49/kg	78	78	6 i	3	800 C	بو/ ورا	88
7,12-Dimethylbenz(A)Anthrecene	28 28 28	19/kg 360	32	5 & 2 &	33	78 ==	<b>5</b>	<b>3</b> 8	88	6/KD	88
Pyridina	_		3800 C	-0/kg	288 888	286 286 2 = C	<b>8</b>	75 8	3980	6/6	38
M-Mitrosconethylethylemine			<b>7</b> 56	5/4 6/4	33	785	<u>ارة</u> 1	3	800 U	<b>10/kg</b>	8
o-Toluidina	-		78 = C	<u>چ</u> چ	<b>1</b> 7			22	300 C C	6 6 6 6	<b>5</b>
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1 3-binitrobenzena		<b>ug/kg</b> 860	35	£ £	33		£ {	35	800	6/kg	8
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3	49/kg	7900 LJ		\$ <u>\$</u> 2	200 E	3	5/6 6/6	3800 E	6285 885		= <b>=</b>		, 6-Dinitrotoluene	2,6-1
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<b>5 8</b>	10/kg	800 E C	33	8	7 8 5	3	49/kg	<b>C C</b>	88		25/25 25/25 25/25	<b>-</b> •	4-Dichtorophenol	2
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;	و د و	E 600	Ī		3 <b>2</b>	36	19/kg	=	8		=	<b>.</b>		Phonol
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Hethapyrilere 3,3'-bimethylbenzidine Hexachlorophene 2:Chlorophenol 3-1,4-Rethylphenoi (2) 4-Rethylphenoi biphenylaeine Hexachloropropene 2:Acetylaeinofluorene 2:Acetylaeinofluorene	Lab Sample Number: Site Locator Collect Date:
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AND 1,4-DICHLOROBENZENE WERE GENERATED FROM THE SYOC (8270) AMALYTICAL RUN.

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		ಕ	**************************************	<b>8</b> 3		7.		
	M7705006 RFADATA 48SS00301 08-AUG-94	CONT. CAN 15	<b>&gt;</b> 7-		mg/kg U. mg/kg U. mg/kg	70/kg 00/kg 00/kg	19/kg 1 19/kg 14 19/kg	mo/kg
	VALUE		5.85			\$ 7.8°		4.7.
Deta	ಠ			કું જું	2.7	5.5	82.	2.1
RF, . face Soil	M7705002 RFADATA 485500201 08-AUG-94 VALUE QUAL UNITS		.78 J mg/kg .23 J mg/kg 5.2 J mg/kg	-		-	.44 U mg/kg .29 J mg/kg 2.7 J mg/kg 2.2 J mg/kg	<b>5</b>
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U * NOT DETECTED R = RESULT IS. REJECTED

J # 687 IMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

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M7705004 RFADATA 48SS00501 08-AUG-94 QUAL UNITS	mg/kg mg/kg mg/ka	<b>39/kg</b>	mg/kg mg/kg	mg/kg mg/kg	mg/kg mg/kg	mg/kg mg/kg	mg/kg mg/kg mg/kg	mg/kg
H770' RFAI 48SS 08-AI	. 67 U . 7 . L 1 . S		. 57. U	. 50 . 5	. 80. 1.5 u	.28 U .44 H	2.5 1	D 4.3
M7705008 RFADATA 48SS00401D 08-AUG-94 UE QUAL UNITS DL	.46 UL mg/kg .54 L mg/kg 77 L mg/ka	. 12. U mg/kg . 12 .63. U mg/kg . 63	.56 t ng/kg 16.1 J ng/kg	2.9 U mg/kg 2.9	3.6 J mg/kg	.28 U mg/kg .28	2,3 J	
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ample Number: Site Locator Collect Date:	
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r: or b: vALUE											~	,		~								
Lab Sample Number: Site Locator Collect Date:	SV-846,8080) vg/kg			Processor Street																		
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U = NOT DETECTED R = RESULT IS REJECTED

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Lab Sample Number: Site	Number: Site Locator	RFADATA 46SS00401D	008 47.4 40.10			F = 85	N7705004 RFADATA 48SS00501			
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4-chlarophemyl-phemylathar	350	_ =	ug/kg	350		1800 U	ug/kg	1800		
Fluorene 4-witrosniline	120	- - 3		7		8800 07	69/kg			
4,6-Dinitro-2-methylphenol	2		ug/kg	2	<b>3</b> 33	9800 U	ug/kg	8800		
N. Hitrogodiphenylamine (1)	92P	) > =	19/kg	<b>3</b> 20	~ ~		ug/kg ug/kg			
-Dignerry Light of the		3 =		350	- =	3 o	29/kg	1800		
Hexach orobenzene		3	. 64/g			800 U.	ug/kg			
Pentachlorophenol	92	_	₽¥/¢n	2	~	9800 u	ug/kg	0088		
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Anthrecene District Shells at a		) >====================================	59/Kg		•		63/20 Co/ko	5 5 5 5		•
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ylbenzylphthalate	S		5/kg	2	<b>v</b> - 1	900 n	ug/kg	180 081		
3,3'-0 ichi orobenzi dine	269		ug/kg	\$	<b>~</b>	n 005	69/kg	3500		
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THE ADDITICUAL LISTINGS OF RESULTS FOR 1,2-1 1,3-1 AND 1,4-DICHLOROBENZEME WERE GEMERATED FROM THE SYOC (8270) AMALYTICAL RUN.

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NAVSIA MATPURI Surface Soil Data M7705004 RFADAIA 48S00501 08-AUG-94	QUAL UNITS	ug/kg ug/kg	08/kg	2/2/3	ug/kg	09/kg	ug/kg	2/8 2/8 3/8			3/63 3/83 3/83	69/kg	64/g	ug/kg	ug/kg	6 /kg	ug/kg ug/kg	09/kg	69/kg 28/kg	69/kg	ug/kg ug/kg			
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Lab Sample Number: Site Locator		ug/kg																						
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2,4-0 icht orophenot			ug/kg	- - - - - - - - - - - - - - - - - - -	320	U 149/kg	<b>.</b>	22	325	- - -	2 2 2 2 3 2	325	320	5,5 5,75 5,75		3 Z
ED CONTRACTOR			<b>6</b> /20	1800		0 1/8g	- 120 1	350	350	<b>=</b> :	64/kg	350	350	2 <b>6 6</b>		22 E
4-Chigroaniline Hexachiorobytadiene				200		_	<b>3</b> 63	32	123	) ) )	2	320	200	2/2		22
4-Chioco-3-methylphenol			<b>56/kg</b> <b>76/kg</b>	2 <u>2</u>	320	. 59/kg	<b>.</b>	325	320	- - -		28	22		<b>.</b>	25
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2,4,5-Trichlorophenol 2-chloromaththalene		28	\$ \$ \$ \$ \$ \$	38				326	320		? ? ? ?	2	320			32
2-Bitroanii ine		900 100 100 100 100 100 100 100 100 100	08/kg	- S		UJ Ug/kg	<b>.</b>	350 350	52	3 : 0 e	- 44/45 - 14/45 - 14/4	320	55 E	UJ 149/Kg U 146/Kg	<b>.</b>	350
Acamatan myterae 2,6-0 in i trotol uene		88	22	200				320	28		2 /8	320	350	U ug/kg		22
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2,4-binitrotoluene		= = 8 8	35	8	350	1 <b>19/</b> 59	<b>.</b>	Σ <b>Σ</b>	e X	) ) ) ()	2 & 3 \ 3	320	320			325
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4.6-Dinitro-2-methylphenol		3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2/kg	870 870 88		U ug/kg	•	250 250	25 25 25	> > > >	59/kg 7/kg	1700 350	08t 08t	3/8 3/8 3/8	_	5 % 5 %
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4-Brosophenyl-phenylether		25	2/kg	<b>&amp;</b>		u vg/kg us vg/kg	<b>.</b>	320	320	- 3 - 0	5 /kg	350	320	2/3 3/3 3/3		2
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NAVSTA MAYPORT RFA Surface Soil Date

CROUND WATER GUALITY Alkelinity as CaCO3 Ammonia-N Chloride Nardness as CaCO3 Nitrate/Nitrite-W Oil and Grease Phosphorous-P, Total Sulfate Sulfate Total Dissolved Solids Total Dissolved Carbon COLOR COLOR Color	Lab Sample Number: Site Locator Collect Date: mg/l mg/l	150 150 150 150 1.7 1.3 1.3 1.3 7.6	M7505004 RFADATA 08MW001S 11-JUL-94 QUAL UNITS mg/l mg/l mg/l u mg/l u mg/l u mg/l u mg/l u mg/l	٠ ١	NA RFA Gr 242 1.3 31.7 262 1	RFA Ground Water Data R8405002 RFADATA 08MW005S 26-UAL-94 08WW005S 26-UAL-94 1.3 mg/l 1.3 mg/l 262 mg/l 31.7 mg/l 36.4 mg/l 36.4 mg/l 36.4 mg/l 36.4 mg/l 36.4 mg/l 36.4 mg/l 36.4 mg/l 36.4 mg/l 36.4 mg/l 36.4 mg/l 5.2 mg/l 5.2 mg/l 7.47 units	Data Data	~	332 332 332 17.1 1.6 5.1 5.3 5.3 5.3	RFADATA 28WA0015 11-JUL-94 QUAL UNITS QUAL UNITS REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1 REG/1	4 E. 2.	207 207 207 252 252 255 349 1.4 349 349 349 349 349 349	R8607C FRADR 100PC 24-AUC QUAL U	001 111A 1001 1-94 MB/1 MB/1 MB/1 MB/1 MB/1 MB/1 MB/1 MB/1
TOTAL PETROLEUM HYDROCARBONS Total petroleum hydrocarbon	s mg/l on	•	1/6w		•	mg/l			•	1/Bw		'	Mg/l	z.

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U = NOT DETECTED R = RESULT 15 REJECTED J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED THE ADDITIONAL LISTINGS OF RESULTS FOR 1,2:; 1,3:; AMD 1,4-DICHLOROBENZENE WERE GEWERATED FROM THE SVOC (B270) AMALYTICAL RUN.

Lab Sample Number:

R8607002 RFADATA 150P001 24-AUG-94 QUAL UNITS Locator

ಕ VALUE Collect Date:

APIA units **mg/**1 7.1 units mg/l APHA 1/66 TOTAL PETROLEUM HYDROCARBONS Total petroleum hydrocarbon Alkalinity as CaCO3 Ameria-N Chloride Hardness as CaCO3 Nitrate/Nitrite-N Oil and Grease Phosphorous-P, Total Sulfate Sulfide Total Dissolved Solids Total Dissolved Solids Color 置

U = NOT DETECTED R = RESULT IS REJECTED
J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED
THE DESTINATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED
THE DESTINATED FROM THE SYOC (8270) AMALYTICAL RUN.

STATE NETALS   Lab Sample Number:   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA   RFADATA						767	MANSTA MAYPORT	Tand								
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Collect Date: (11-Jul194		Lab Sample Number: Site Locator		M7504006 RFADATA DBMWOO1S			M7504007 RFADATA 08MJ001S	<u> 44.</u> 3		R640 RFA OBMU	4002 DATA 005S			RFADA 28MM00 11- III	88 <b>4</b> 8 8	
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3.5 J ug/l 3.5 J ug/l 3.3 1.4 b ug/l 1.4 7 J ug/l 1.8 1 1.4 b ug/l 1.4 7 J ug/l 1.8 1 1.4 b ug/l 1.4 1.8 1 1.8 b ug/l 1.4 1.8 1 1.4 b ug/l 1.4 1.8 1 1.8 b ug/l 1.4 1.8 1 1.4 b ug/l 1.4 1.8 1 1.4 b ug/l 1.4 1.8 1 1.4 b ug/l 1.4 1.8 1 1.4 b ug/l 1.4 1.8 1 1.4 b ug/l 1.4 1.8 1 1.4 b ug/l 1.4 1.4 1.4 b ug/l 1.4 1.4 b ug/l 1.4 1.4 1.4 b ug/l 1.4 1.4 1.4 b ug/l 1.4 1.4 1.4 b ug/l 1.4 1.4 1.4 b ug/l 1.4 1.4 1.4 b ug/l 1.4 1.4 1.4 b ug/l 1.4 1.4 1.4 1.4 b ug/l 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	Auor		2.5	7/85 n	2.2	7.9	- ·		7.	o ≃	; ;	٠ • <u>•</u>	3.4	,	· /	:
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2 4. U 4.		77900 2.6 U 3,1 U	3.6 J 1.6.2 1.7.34	11400 4.5 J	2 6 C	3. 4. W.
1/Bn						
BKG WATER METALS Antimony	Berium Berium Berillium	Calcium Chromium Cobalt	Copper Cyanide Iron	Lead Magnes ium Manganese Manganese	Nickel Selenium Silver	Sodium Thellium Tin Veredium Zinc

Site Locator

Collect Date:

ž

PESTICIDES/PCBs (SW-846,8080) alpha-8HC

beta-BKC delta-BKC gamma-BHC (Lindane) Heptachlor Aldrin

Heptachlor epoxide Endosulfan 1

Lab Sample Number:

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R8608002 RFADATA 150P001 24-AUG-94 QUAL UNITS VALUE U = MOT DETECTED R = RESULT IS REJECTED
J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LINIT IS ESTIMATED

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3 >

Kepone Araclor-1016 Araclor-1221

Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1260

Dieldrin 4,4-DDE Endrin Endosulfan 11 4,4-DDD Endosulfan sulfate 4,4-DDT

Methoxychlor Endrin aldehyde Endrin ketone Chlordane Chlorobenzilate Diallate Toxaphene

MAVSTA MAYPORT RFA Ground Water Data

R8608002 RFADATA 150P001 24-AUG-94 VALUE QUAL UN1TS DL	,,,,,,,	10 U wg/l 50 U wg/l 10 U wg/l 10 U wg/l 10 U wg/l 10 U wg/l 10 U wg/l 10 U wg/l 10 U wg/l 10 U wg/l 10 U wg/l 10 U wg/l 10 U wg/l 10 U wg/l 10 U wg/l 10 U wg/l		10 U ug/1 10 10 10 10 10 10 10 10 10 10 10 10 10	
Lab Sample Number: Site tocator Collect Date:	4-Chlorophenyi-phanylether Fluorene 4-Nitroaniline 4,6-Dinitro-2-methylphenol N-Nitrosodiphenylamine (1) 1,2-Diphenylhydrazine	4-Bromophenyl-phenylether Hexachlorobharene Pentachlorophenol Pentachlorophenol Pentachlorophenol Anthracene Di-n-Butylphthalate Fluoranthene Pyrene Butylbenzylphthalate 3,3'-Dichlorobenzidine Benzo(a)anthracene Chrysene Di-n-octylphthalate Bis(2-Ethylhexyl)phthalate Bi-n-octylphthalate Bi-n-octylphthalate	Benzo(k) fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Zerzo(g,h,i)perylene Zerzo(g,h,i)perylene Bethyl methanesulfonate Ethyl methanesulfonate	N-Nitrosopiperidine Phenyl-tert-butylamine 2,6 Dichlorophenol 2,6 Oichlorophenol N-Nitroso-di-n-butylamine N-Nitrosopyrrolidine N-Nitrosopyrrolidine Benzidine 1,2,4,5-Tetrachlorobenzene Pentachlorobenzene 2-Naphthylamine 2.3,4,6-Tetrachlorophenol	Phencetin 6-Aminobiphenyl Pronamide promamide 7,12-Dimethylamino)azobenzene 7,12-Dimethylaminolazobenzene 7,12-Dimethylamikrane Pyridine Nyridine Nyridine

NAVSTA MAYPORT RFA Ground Water Data

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REGUEUUZ	150P001	QUAL UNITS
		VALUE
Lab Sample Number:	Locator	יסוופכו השופ:
James de.		103

	QUAL UNITS DL	10 1/6n		1/80		ug/1 50	_	0L 1/gn	ug/t 10		1/6n		<b>-/</b> 85		7	0t 1/6n		1/6n	1/6n	ng/1 50	
		2	50 0	500 C	20.5	200	1000 L	9	10 C	<b>₽</b>	500 R	2	2 2		20	10 C	10 U	•	•	20 C	
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j.	H7503005 RFADATA 28ML0015 11-JUL-94 QUAL UNITS	1/65 1/65 1/65 1/65 1/65 1/65
	H750 RFA 28MH 11-J	00000000000000000000000000000000000000
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NAVSTA MAYPORT Ground Water Data	·ν	1/6n 1/6n 1/6n 1/6n 1/6n 1/6n
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	M750. RFA 08MM 11-JI	850855 . 85 222222 . 22
	YALUE	I 14
	Lab Sample Number: Site Locator Collect Date:	
	r sp	nzidine mol (2)
		lene ithylben ophene henol mine opropen
		Methapyrilene 3,3'-Dimethylbenzidine Heachlorophene 2-Chlorophenol 3- 4Methylphenol (2) 6-Methylphenol Diphenylamine Hexachloropropene
1		\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\

Lab Sample Number: R8608002
Site RFADATA
Locator 150P001
Collect Date: 24-A46-94

Collect Date:	VALUE	24-At	24-AUG-94 DUAL UNITS	5	
		:			
IKG SVOC (8270+24) ug/t		:	;		;
H-Nitrosodimethylamine			7 Bn		2 5
Phenot			3		2 5
i ine			3		2 5
bis (2-Chloroethyl) ether			7 g		2 \$
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bis(2-Chloroisopropyl)ether		_	1/6n		2 \$
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Nitrobenzene			1/6n		2 5
1 sophorone		o :	) 60		2 \$
2-Witraphenol		ə :	5 5		2 \$
2,4-Dimethylphenol			5		2 6
Benzoic acid		) ) )	) S		2 5
bis(2-Chloroethoxy)methane			7 5 5		2 \$
2,4-Dichlorophenol			Z 5		2 5
1,2,4-Trichlorobenzene		2 9	7.6n		5 5
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4-Chloroaniline		) ) ) (	) (6)		2 5
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4.Chloro-3-methylphenol		2 9	) B		2 5
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2,4,6-Trichlorophenol		2 5	3		2 =
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2,4-Dinitrotoluene		2 5	3 3		2
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				RFA	NAVSTA MAYPORT Ground Water Data	ORT r Data								
Lab Sample Number: Site Locator		M7503004 RFADATA 08MW001S		,	R8403002 RFADATA OBMUDOSS			M7503005 RFADATA 28MW001S			RB60 100	RB608001 RFADATA 100P001		
Collect Date:	VALUE	11-JUL-94 QUAL UNITS	10	VALUE	26-JUL-94 QUAL UNIT	3 OF	VALUE	CUAL UNITS	TS OF	VALUE		UNITS	10	1
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BKG SVOC (8270+24)			•			•	5	•	5	Ş	5	7/47	<u> </u>	
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Phenol	2 €	 66 67 67			-	پ.	2 ;	. <b>.</b> .	: = :	:23		/Bn	29	
bis (2-Chloroethyl) ether	2		-	-	<b>-</b> :	<u>.</u> .	5 5	/gn	<b></b>	2 \$	2 9	7 E	2 2	
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1,2-Dichlorobenzene	n,	<b>-</b> :	•	<b>س</b> د	10 U U U U U U U U U U U U U U U U U U U		2 5	) 0 1 1 0 1 1 0 1	<b>.</b> =	2 2	2 2	- - - - -	2 2	
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N-Nitroso-di-n-propylanine	2 2	) John n	· <del></del> •		<b>&gt;</b> :	_:	2:	70 c cg/	₹;	2 5	9	<b>7</b> 5	2 5	
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2-Nitrophenol	29	<b>&gt;</b> :		00	10 U U 01/	= =	2 2	000		2 2		- - -	2 2	
2,4-Dimethytphenol	2 5		-	5	, ,	٠.	; <b>≿</b>	œ	: <u>-</u>	: ;		7/gs	20	
bis(2-Chloroethoxy)methane	<b>.</b>	: 🔿 :		0	<b>ɔ</b> :		2 5	10 U 01/01/01/01/01/01/01/01/01/01/01/01/01/0	<u> </u>	유 두	2 =	5 S	2 2	
2,4-Dichlorophenot	25			<b>.</b>	10 to 10g/		2	, ,	:=	2 2	1 2 2	7	0	
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4-Chtoroanitine	<b>.</b> 2 3	<b>5</b> :		0	<b>-</b>	===	<b>2</b>	10 Ug/	<b>₹</b> ₹	22	2 2 2 2	 	2 9	
Hexach lorobutadiene	₽ \$	1/6m n		- <b>-</b>	10 U U		≥ ₽	<b>5 5</b>	.≤	2 2	_	- - -	2 2	
2-Nethylraphthalene	5	-		0	<b>-</b> :	= :	₽ \$	<b>-</b> -	<u> </u>	22	2 <u>2</u>	1/Bn =	25	
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2-Chloronaphthalene 2-Mittoniline	5 52		- "			: <del>-</del>	2.5	, 5	- - -	20	_	/gn	20	
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2,6-Dinitrotoluene	25	7/6n n	- 41	<b>,</b>	<b>,</b> 5	: =	2 S		<u> </u>	20.		) P	2 23	
Acenaphthere	₹₽	, ,			· <b>-</b> :	<b>ا</b> ت	<b>2</b> 5	<b>-</b> :	76	25	≎ 9 5 = 0	~ §	₽ 5	
2,4-Dinitrophenol	200	<b>-</b> :		00	20 0 00/2	= =	₹		- - -	32		7	₹	
4-Nitrophenol Dibenzofuren	2 2	<b>,</b>			3 -	: <del>-</del>	5	· = :	, , , ,	29	2 t	75	2	
2,4-Dinitrotoluena	29	<b>-</b> :		•	5 5 5 5	< ₹	2 5	<b>5</b> =	<u> </u>	2 0		; ; ; ;	2 0	
Diethylphthelete 4-Chlorochenyl-cherylether	2 8	3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7				:=:	22:	· = :	2	25		Z :	29	
Fluorene	2	. · •	1		<b>&gt;</b> :	₹:	₽ \$	<b>-</b>	<b>5</b> 5	25	= = 2	<u> </u>	25	
4-Witrobniline	22	1/8m n = 1	<b>41 6</b>	00	200		22			28		, _ 3 3	28	
6.6-Dinito-C-Meinyipherol	2	<b>,</b>		. 0	· <b>-</b>	: =	10	_ 	) /Bn	2	⊐ : <b>2</b> :	/gn	2 9	
1,2-0 iphenylhydraxine	29	<b>-</b> :		00	10 U OF	τ;	<b>2</b> \$	5 S 5 S	/# 1/#	22	) ] ]	 	2 2	
4-Branchenyl-phenylether	2 5		- •-		) <b>-</b>	: =	2 2		, <u>, , , , , , , , , , , , , , , , , , </u>	2	D :	) 8	0.	
Pentachi orophenol	25	. – :		22	<b>&gt;=</b>	₹₹	85	20c 20c	)/8n	8 <del>2</del>	2 2 2 2 3	- - - - - - - - - - - - - - - - - - -	S 2	
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IAVSTA MAYPORT	RFA Ground Water Data	
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R6608001 RFADATA RFADATA 28MW001S 100P001 11-JUL-94 24-AUG-94 QUAL UNITS DL	Lay 1 10 10 10 10 10 10 10 10 10 10 10 10 1	l
RB403002 RFADATA 08MM005S 26-JUL-94 QUAL UNITS DL VALUE	### #### #############################	
M7503004 RFADATA OBM#001S 11-JUL-94 MJAI JUNTS OL VALUE		
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Lab Sampl	Anthracene  Di-n-Butylphthalate Fluoranthere Pyrene Butylbenzylphthalate Butylbenzylphthalate Benzo(a)anthracene bis(2-Ethylhexyl)phthalate bis(2-Ethylhexyl)phthalate bis(2-Ethylhexyl)phthalate bis(2-Ethylhexyl)phthalate bis(2-Ethylhexyl)phthalate bis(2-Ethylhexyl)phthalate bis(2-Ethylhexyl)phthalate bis(2-Ethylhexyl)phthalate bis(2-Ethylhexyl)phthalate bis(2-Ethylhexyl)phthalate Benzo(a)yrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene Z-Picoline Benzo(g,h,i)perylene Benzo(g,h,i)perylene Z-G-Dichlorophenol Benzo(g,h,i)perylene Z-G-Dichlorophenol Benzo(g,h,i)perylene Z-G-Dichlorophenol Benzidine I-Naphthylamine Z-Mainobiphenyl Pentachloropene I-Naphthylamine Pentachloropene I-Naphthylamine Pentachloropene I-Naphthylamine Pentachloropene Pronamide D-Comethylbenic(A)Anthracene Z-G-Dimethylbenic(A)Anthracene	

R8608002	RFADATA	1500001
Sample Number:	Site	Locator
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R8608002	RFADATA	150001	54-AUG-94	QUAL UNITS
Lab Sample Number:	Site	Locator	Collect Date:	VALUE

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5555v 33333			~~~~~ >>>>>>	5vvvvvvv 	
1/Bn					
BKG VOCs (8240+11) Chloromethane Bromomethane Vinyl chloride Chloroethane	Acetone Carbon disulfide 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethene (total) Chloroform 1,2-Dichloroethane	2-Butanone 1,1,1-Trichloroethane Carbon tetrachloride Bromodichloromethane 1,2-Dichloropropane cis-1,3-Dichloropropene Trichloroethene	Dibromochloromethane 1,1,2-Trichloroethane Benzene trans-1,3-Dichloropropene Bromoform 4-Wethyl-2-pentanova	2-Mexanone Tetrachioroethene 1,1,2,2-Tetrachioroethane Toluene Chiorobenzene Ethylbenzene Styrene Mylenes (total)	1.3-Dichlorobenzene Acrolein Bodomethane 1,4-Dichlorobenzene Acrylonitrile Dibromomethane

U = NOT DETECTED R = RESULT IS REJECTED
STIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED
NOTICOMAL LISTINGS OF RESULTS FOR 1,2:; 1,3:; AND 1,4-DICHLOROBEN

NAVSTA MAYPORT RFA Ground Water Data

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1 2-bichtorobenzene	 그 은	<b>5</b>	2∶
	= ==	75	Ę
2-Chloroethylvinylether	o.: >:-	•	
C+bol methanicalate	~ ~	- -	^
	=	1701	<b>.</b>
1.2.3-Trichloropropane	<b>3</b> :	ñ	·L
trans-1 4-Dichloro-2-butene	>	_ 9	^
Laborated a location	200 R	7	
Incomit a comment	=	-	
1.1.1.2-Tetrachloroethane	<b>-</b>	<u> </u>	•
1 2. Bibrono. T. chlorograph	2 2	-/B	
	=	-	
1.2-Dibromoethane	3	Š.	
1 A.Diovene	200 200 200	<b>-</b>	
TOYOUT A	=	/011	<u>.</u>
3-Chloropropene			,
Aretonitrile	30 CE	<b>5</b>	
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רשוסגסחובוים		7	
Methacrylonitrile	3	7	
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שבונולו ושרווסרו ליחיר	= ==	7/611	
Pentach or oethane	3 2	1/65	
Dranianitrile	70 OOL	- 9	
	= ==	1/81	9
Vinvi acetate	> -	,	•

Lab Sample Number:		R86	R6608002 RFA0ATA		
Locator Collect Date:	VALUE	2 % 2	150P001 24-AUG-94 QUAL UNITS	ā	
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		, IV	; ; ; ;		
2-butene	•	2° 5°	1/69 1/69		
ethane	-	, D	7		

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			:		RFA	NAVSTA MAYPORT Ground Water Data	RT Data								
Lab Sample Number: Site Locator Collect Date:	ample Number: Site Locator Collect Date:		M7503004 RFADATA 08MW0015 11 - JUL - 94			R8403002 RFADATA 08MW005S 26-JUL-94			M7503005 RFADATA 28MW001S 11-111-94	20 ⊀ 21 ° 5 - 20 × 21 ° 5			REGORDO1 RFADATA 100P001	<u>-</u>	
		VALUE	QUAL UNITS	٦.	VALUE	QUAL UNITS	ᆸ	VALUE	QUAL UNITS		5	VALUE	QUAL UNITS	ا 12 م	
BKG VOCs (8240+11)	J/Bn	:													
Chloromethane Aromomethane		2 5	/6n ==	₽ \$		1/gn U 01 1/gn :: 01		<u> </u>	<b>-</b> :-	1/6n	29	= ;	_ 	J/Bn	9
Vinyl chloride		22		2.2	- <b>-</b>	760 0 0	_ •	2 9	  	- /g - /g	2	= =	3 : 	1/gr 1/gr	2 5
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Lab Sampte Number: Site Locator Collect Date:		M7684008 RFADATA 288502204 06-AUG-94		M. 288	M7683003 RFADATA 288503104 06-AUG-94			M7683004 RFADATA 2885031040 06-AUG-94	1004 ATA 11040 16-94	
	VALUE	QUAL UNITS	ы	VALUE OU	QUAL UNITS	<b>Z</b>	VALUE	SEA.	QUAL UNITS	5
4-Chlorophenyl-phenylether	1700	U U9/kg	1700	09£	ug/kg ug/kg	986	22	) 	56 54 54 54	22
File Control	38		- E	1800 U	ug/kg	1800	000		6	<u>8</u>
4,6-Distro-2-methylphenol	8	- -	<b>6</b> 100	1800 U	<b>4</b> 9/kg	985			5/kg	<b>3</b> 5
H-Mitrosodiphery(smine (1)		2 59/Kg	3	200 200 200 200 200 200 200 200 200 200	4, kg	2	26	33	56/55 56/50	2
6-Bromophenyl phenylethar	2		1700	360 U	ug/kg	360	2	<u>.</u>	00/kg	370
Hexachlorobenzene	2:	2/8°:	1780	360 U	ug/kg	18.00	570 1800		UG/KQ UG/ko	2 <b>2</b>
Pentach to romerot	25 25 25		2021	3098	ug/kg	98	2	:	ug/kg	2
Anthrecene 94. 1 01:55 Obeta 140	2.5 5.5 5.5	09/60 10/60	<b>88</b>	 9 %	ug/kg ug/kg	3,5	3.5 2.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3	<b>&gt; &gt;</b>	2 2 2 2 3 2 3 2	28 28
Florentian	8	) S		360 0	ug/kg	98	25		ug/kg	25
		2/8 2/8		360 0	<b>19/kg</b> 19/kg	2095		<b>-</b> -		22
3,3'-0'chlorobenzidine	3300	3	- 20 20 20 20 20 20 20 20 20 20 20 20 20	0.022	ug/kg	720	<b>F</b> .	<b>)</b>	64/60 (10)	25
	22			7 09£	ug/kg ug/kg	38	32	3 3	2 % 2 %	2
bis(2-Ethylbexyl)phthalate	2	<b>.</b>	2	360 U	ug/kg	98	r.	==	2/2	25
Of-p-octylphthelate		2/2 2/2/2	3	7 09E	69/kg	28	25		5 2 2 2	28
Benzo(x)fluoranthere	120	7/65	2	360 U	ug/kg	360	370	<b>-</b>	ug/ka	25
Benzo(a)pyrena	<b>E</b> &	) /Bn	<b>⋛</b>	7 09E	29/kg	38		3 3	2 S 3 S	22
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Metopienine Metitebappiperidine	2	3		98	5/E	92	R	- 	3	2
Phenyl-tert-butylesine	36	<u> </u>	3 <b>8</b> €	3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	9 5 9 5	38		3 =		2
B-#14roso-di-n-butylamine	2	3	5	790 E	09/kg	33	25	- 	2/S	25
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Pentachlorobentene	8		8	1800 U	uo/ka	1800	2	- - -	3/3	8
1-Nephthylenine	25 25 26 26 26	<b>3</b> 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 2 8 8 8	2 008 2 008 2 0 08	69/kg /kg	1808 1808			2 2 2 3 3 3	38
2,3,4,6-Tatrachloropherot	2		2	3 S	06/kg	360	R.F	3	64/60 (5/60	25
Phenacetin 4-Aminobiotenvi	58 56	33 33 33	8	26 20 20 20 30 30 30 30 30 30 30 30 30 30 30 30 30	2 /80 06/x0	<b>紫</b> 蔓				8
Pentachloronit robenzene	8100	<b>-</b>	8	1800 U	U\$/kg	900	<b>2</b> :	) 	64/s	<u>5</u>
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7, 12-Dimethy (benz (A) Anthrecene	2	_ ====================================	2	= = <b>5</b> 5	<b>15/kg</b>	33	25	> *** <b>&gt;</b> =	<b>19/kg</b> 116/kg	22
5-Rethylcholanthrane Pyridine	38 38	33	3	8 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 2	3	<b>S</b>	) ) = :	54/kg	500
N-Ritrosomethylethylenine	<u> 2</u> 2	33			<b>59/kg</b>	88	r R	<b>)</b>	56/kg 56/kg	22 22 22
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M7683004 RFADATA 2885031040 06-AUG-94 QUAL UNITS	69/kg 69/kg 69/kg 69/kg 69/kg 69/kg 69/kg 69/kg 69/kg
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S WERE GENERATED FROM THE SVCC (8270) ANALYTICAL RUN.

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N7684020 RFADATA 288501704 06-AUG-94 QUAL UNITS	ug/kg ug/kg	46/48 69/48 69/48	09/kg 09/kg 09/kg
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VALUE	1900 390 (	<u> </u>	1900 u 390 u
DE .	2100	88	3
M7684019 RFADATA 288501004 06-AUG-94 QUAL UNITS	ug/kg ug/kg ug/kg	2.2.2 2.2.2 2.2.2 2.2.2 3.2.3 3.2.3	299 266
VALUE	2100 1		2100 2000 2000 2000
귤	*	28 89 89 89	8.3
M7684007 RFADATA 288500504 06-AUG-94 QUAL UNITS	ug/kg ug/kg ug/kg	ug/kg ug/kg ug/kg	ug/kg ug/kg ug/kg
AALUE OR	2900 U. 600 U. 29000 #	2000 2000 2000 2000 2000	2900 U 600 U
ಕ	1700 350	220	350
M7684006 RFADATA 288500106 06-AUG-94 QUAL UNITS	0 U ug/kg 0 U ug/kg	2000 2000 2000 2000 2000 2000 2000 200	- ug/kg 700 UJ ug/kg 150 U ug/kg
VALUE		ENN.	Ēž.
Lab Sample Number: Site Locator Coitect Date:	2	8	Ē
·	thapyrilene 3. Dimethylbenzi	amite Chlorophenoi & 4-Nethylpheno Methylphenol	phenylasine xachioropropere Acetylasinofluor

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STINATED 4-DICHLOROBENZENE WERE GENERATED FROM THE SVOC (8270) ANALYTICAL RUM

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Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   C			200	uo/ka	9	7 02		<b>629</b>	300 C	ug/kg	<u>ج</u>
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 No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.	1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   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1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000	100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	200		a 009	ca/ko	89	<b>707</b>	62/Kg	2	3 00 P	09/Kg	<u> </u>
No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.	Column	100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	250 U U U U U U U U U U U U U U U U U U U		1200 U	ug/kg	1200	⊃ 058 	<b>20/kg</b>	2 2	25	02/05 07/05	2 2
100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	100001	Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Colo	350 C		⊃ 09	ug/kg	909	_ \$3		<b>3</b>	366	6 / Kg	2 5
100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100  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  100   100   100   100   100   100   100	\$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001  \$250 0.0001 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Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   C	350 CC	jeda L	⊃ 00 <del>9</del>	ug/kg	009	750 C	8 /8 8	924	25	2/2	
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Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   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1700   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   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100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   100001   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WATER STORE COLO 1 WATER STORE COLO 1 WATER	1200   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001   10001 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0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007	6.0 1960 1961 1968 1968	п 009	ug/kg	9	7 0 T	56/kg	2		2/2	266
1700   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100 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1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   1200   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150   10   10   10   10   10   10   10	100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	250 U U U U U U U U U U U U U U U U U U U		2900 UJ	ue/ka	y Š	2100 U	ug/kg	2 2 2	200	<b>5</b> 9/kg	<b>2</b> 5
100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100  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  100   100   100   100   100   100   100	1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000  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1700 U	1700 U ug/kg	1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700 U Warfe   1700			_	ug/ka	35 0	n 02 <b>7</b>	- 14/KB	Ş	380 C	09/Kg	<u>R</u> ;
1700 U	1700   10   10   10   10   10   10   1	1700   100/14   1700   2500   100/14   2500   2100   100/14   2100   1500   100/14   1700   100/14   1700   2500   100/14   2500   2100   100/14   2100   1500   100/14   1700   100/14   1700   100/14   1700   2500   100/14   2500   2100   100/14   2100   1500   100/14   1700   100/14   1700   2500   100/14   2500   2100   100/14   2100   1500   100/14   1700   100/14   1700   2500   100/14   2500   2500   100/14   2500   100/14   2500   2500   100/14   2500   100/14   2500   2500   100/14   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   100/14   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500   2500	STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STA		_	ce/ke	99	7 83	2/P3	8	2 S	9/kg	2
1700   USA/14   1700   2500   USA/14   2500   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700   USA/14   2700	1700   USA/4   1700   2500   USA/4   2500   USA/4   2700   USA/4   1700   USA/4   2700   USA/4   2700   USA/4   1700   USA/4   2700   USA/4	1700   100/16   1700   2000   100/16   2000   2100   100/16   1700   100/16   1700   2000   100/16   1700   100/16   1700   2000   100/16   1700   2000   100/16   1700   100/16   1700   2000   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   100/16   1700   1700   1700   1700   1700   1700   1700   1700   1700   1700   1700   1700   1700   1700   1700   1700   1700   1700   1700	一般の こうかん かんき かんしょう こうかん こうかん こうかん こうかん こうかん こうかん こうかん こうか		ra 009	ug/ko		<b>707</b>	27/35	3	200	64/85 64/85	P S
1700 U   ug/kg   1700   2900 U   ug/kg   2900   2100 U   ug/kg   2100   1900 U   ug/kg   1700   2900 U   ug/kg   2900   2100 U   ug/kg   2100   1900 U   ug/kg   1700   2900 U   ug/kg   2900   2100 U   ug/kg   2100   1900 U   ug/kg   2100   1900 U   ug/kg   2100   1900 U   ug/kg   2100   1900 U   ug/kg   2100   1900 U   ug/kg   2100   1900 U   ug/kg   2100   1900 U   ug/kg   2100   1900 U   ug/kg   2100   1900 U   ug/kg   2100   1900 U   ug/kg   2100   1900 U   ug/kg   2100   1900 U   ug/kg   2100   1900 U   ug/kg   2100   1900 U   ug/kg   2100   1900 U   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2100   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200   ug/kg   2200	1700 U ug/kg	1700 U ug/kg			2900 L	ue/ka	2962	2 2 2 3	<b>5</b>	22		6×/62	3
1700 U ug/kg	1700   104/2   1700   2900   104/2   2900   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   104/2   2100   210/2   210/2   210/2   210/2   210/2   210/2   210/2   210/2   210/2   210/2   210/2   210/2   210/2   210/2   210/2   210/2   210/2	1700 U			2900 U	09/kg	2002	2 <b>38</b> €	19/60	2		0×/00	2 5
1700   U ug/kg   1700   2900   U ug/kg   2900   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2100   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200   U ug/kg   2200	1700   U   U   U   U   U   U   U   U   U	1700 U ua/kg			2900 E	4/kg	2900	2 8 7.	_ E4/kg	2 2 2	_	ug/kg	2
1700   140/14   1700   2500   140/14   2500   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   1700   140/14   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140/14   1700   140/14   1700   140/14   1700	1700 U	1700   100/14   1700   2900   100/14   2900   2100   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   100/14   2700   2700   100/14   2700   2700   100/14   2700   2700   100/14   2700   2700   100/14   2700   2700   100/14   2700   2700   100/14   2700   2700   100/14   2700   2700   100/14   2700   2700   100/14   2700   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150 U 19/14   1700   19/14   2500   19/14   2500   19/14   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700   19/14   1700	1700   144/4	1500 U ug/kg   1700   190/kg   2500   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg   1700   190/kg			2000	na/ka	2900	<b>787</b>	UD/Ka	8	_	ug/kg	
1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   1700   1   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14   190/14	1700   104/kg   1700   2900   104/kg   2900   2100   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg   1900   104/kg	1700   104/48   1700   2900   1 04/48   2900   2100   104/48   1700   104/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   1 04/48   1700   2900   2900   2900   2000   2900   2900   2900   2900   2900   2900   2900   2900   29			n 009	co/kg	9	3 87	8x/8n	8		ug/kg	2
1700   1	1700   1	1700   145/4			_		т, ,	787	2 7			09/kg	8
170   1974   170   2900   1974   2900   2160   1974   420   1970   1970   1970   1970   1970   1970   1970   1970   1970   1974   420   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970	170   10   10   170   2900   10   10   10   10   10   10   10	7700   1			_	ca/ka	2002	2100 C		2	_	<b>69/kg</b>	3
1350 U	1700 U ug/kg   350   600 U ug/kg   600   620 U ug/kg   620   620 U ug/kg   620   620 U ug/kg   620   620 U ug/kg   620   620 U ug/kg   620   620 U ug/kg   620   620 U ug/kg   620   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   620 U ug/kg   6	150   10   10   10   10   10   10   10			_	ug/kg	2300	2 8 8 8	2/ <b>3</b>	22		09/Kg	<u> </u>
150 (1 mg/kg   150 600 U mg/kg   600 620 (1 mg/kg   620   1900 U mg/kg   150 (1 mg/kg   620   1900 U mg/kg   150 (1 mg/kg   620   1900 U mg/kg   150 (1 mg/kg   620   1900 U mg/kg   150 (1 mg/kg   620   1900 U mg/kg   150 (1 mg/kg   620   1900 U mg/kg   150 (1 mg/kg   620   1900 U mg/kg   150 (1 mg/kg   620   1900 U mg/kg   150 (1 mg/kg   620   1900 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   1500 U mg/kg   150	1700   140/kg   1700   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600   120/kg   600/kg	100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100			-	ug/kg	3	= 83 ***	2	3		8 / Y	2 2
1700   1 mg/kg   150   600   1 mg/kg   600   420   1 mg/kg   420   1 mg/kg   420   1 mg/kg   420   1 mg/kg   420   1 mg/kg   420   1 mg/kg   420   1 mg/kg   420   1 mg/kg   1 mg/kg   420   1 mg/kg   420   1 mg/kg   420   1 mg/kg   420   1 mg/kg   1 mg/kg   420   1 mg/kg   1 mg/kg   420   1 mg/kg   1 mg/kg   420   1 mg/kg   1 mg/kg   420   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 m	1700   1 mg/kg   350   600   1 mg/kg   600   420   1 mg/kg   420   1900   1 mg/kg   1700   1900   1 mg/kg   420   1900   1 mg/kg   1700   1900   1 mg/kg   420   1900   1 mg/kg   1700   1900   1 mg/kg   420   1900   1 mg/kg   1700   1900   1 mg/kg   420   1900   1 mg/kg   1700   1900   1 mg/kg   420   1900   1 mg/kg   1700   1900   1 mg/kg   420   1900   1 mg/kg   1700   1900   1 mg/kg   420   1900   1 mg/kg   1700   1 mg/kg   2900   2100   1 mg/kg   2100   1900   1 mg/kg   1700   1900   1 mg/kg   2900   2100   1 mg/kg   2100   1900   1 mg/kg   1700   1 mg/kg   2900   2100   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1 mg/kg   2900   1	350   1	7 056		73 009	ug/kg		- 2	2 3	3	2 2 2 2		2 5
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NAVSTA MAYPORT RFA Soil Boring Data

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NAVSTA MAYPORT RFA Soil Boring Data

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NAVSTA MAYPORT RFA Surface Soil Data

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J * ESTIMATED VALUE UJ = REPORTED QUANTITATION LINIT IS ESTIMATED

NAVSTA MAYPORT RFA Surface Soil Data

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MAVSTA MAYPORT RFA Surface Soil Data

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M7675011 RFADATA 28SS02201 05-AUG-94 QUAL UNITS

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M7684015 RFADATA 28SS01501 06-AUG-94 QUAL UNITS

Collect Date:

Locator

Lab Sample Number:

M7684016 RFADATA 28SS01601 06-AUG-94 QUAL UNITS

NAVSTA MAYPORT RFA Surface Soil Data M7684017 RFADATA 28SS01701 06-AUG-94 QUAL UNITS

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	Lab Sample Number: M7683005 M7698012 M7698011  Site RFADATA RFADATA RFADATA 28SS03401  Locator 28SS03301 28SS03401 10-AUG-94 10-AUG-94  Collect Date: VALUE QUAL UNITS DL VALUE QUAL LUNITS DL VALUE QUAL UNITS	ន្តិ	1700 18000 UJ vg/kg	U ug/kg 1700 18000 U ug/kg 18000 1	9/2: -:	11 110/kg 350 3600 U Ug/kg 3600	U ug/kg 350 3600 U ug/kg 3600	U 146/kg 1700 18000 U 19/kg 18000 1	350 3600 U ug/kg 3600	350 U 49/Kg 350 U 49/Kg 3600 U 3600 U 46/Kg 3600 370 U	0 1 ua/kg 350 3600 ug/kg 3600	0 U UU/Kg 350 3600 U Ug/kg 3600	350 U	3600 U ug/kg 3600	350 3600 U ug/kg 3600	350 350 U	0000 By/80 0 000 000 000 000 000 000 000 000 00	15 146/kg 350 1 19/kg 3600	U ug/kg 350 3600 U ug/kg 3600	350 3600 U	U 49/kg 3600	U wg/kg 1700 18000 U wg/kg 18000	350 U 19/kg 350 3600 to 19/kg 3600 370 U	U UD/Kg 350 3600 U UG/kg 3600	U UG/kg 350 3600 U Ug/kg 3600	1700 U	U 42/kg 350 3600 U 42/kg 3600	250 3600 U	18000 to ug/kg	U ug/kg 1700 18000 U ug/kg	U 49/kg 1700 18000 U	18000 U ug/kg 18000	u ug/kg 350 3600 u ug/kg 3600	350:0 ug/kg 350 3600 UJ ug/kg 370 UJ 370 UJ	U ug/kg 1700 18000 U ug/kg 18000	U 49/kg 350 3600 U	11 140/kg 350 3600 0 02/kg 3600	U ug/kg 350 3600 U ug/kg 3600		
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r: te or e: vALUE		
Leb Sample Number Sit Locato Collect Date	o-Toluidine Heachloropropere p-Pherylenciamine Safrole laceafrole 1,4-Maphthoquinone 1,5-Maphthoquinone 5-Mitro-o-toluidine 5-Mitro-o-toluidine 1,3-5-Trinitrobenzene 4-Mitroquinoline-1-oxide Mathapyrilene 3,3-Pimerhylbenzidine Haxachlorophene	5. & 4-Methylphenol (2) 4-Methylphenol Diphemylamine Hexachloropropere 2-Acetylaminol luorene

LERE GEHERATED FROM THE SYOC (8270) ANALYTICAL RUM.

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Lab Sample Number: Site Locator Collect Date:			2	o	8	
	0-foluidine Hexachioropropene	p-Pherylenedianine Safrole Taosafrole	1,3-Dinitrobenzene 5-Nitro-o-totuidine 1,3,5-Trinitrobenzene	4.Nitroguinoline l'oxide Nethapyrilena 5.3' pimethylbenzidine	Arasito Manage 2 Chloropherol 5-2 4-Rethylpherol (2)	4-Mathy plane Dipheny learing Baschi or poporers 2-Acatyi an indition are 2-Acatyi an indition are

U = NOT DETECTED R = RESULT 1% REJECTED
J = ESTINATED VALUE UJ = REPORTED QUANTITATION LINIT IS ESTINATED
THE ADDITIONAL LISTINGS OF RESULTS FOR 1.2-; 1,3-; AND 1,4-DICKLOROBENZENE WERE GENERATED FROM THE SVOC (8270) AMALYTICAL RUN.

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NAVSTA MAYPORT RFA Surface Soil Data	N7698012 RFADATA 285503401 10-AUG-94 QUAL UNITS		ug/kg	ug/kg ug/ka	ug/kg	ug/kg :s/kg	54/s	ug/kg	09/kg	ug/kg	ug/kg	69/kg	ug/kg	64/kg	56/kg 2/kg	ug/kg	dy/dn	5 /kg /kg	5/kg	54/kg	64/g	ug/kg	5/8 2/8		54/kg	64/kg	? <u>9</u>	ug/kg	54/g	140/Kg	, y	ug/kg
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	M7683005 RFADATA 28SS03301 06-AUG-94 04AL UNITS		3	64/kg	? <u>5</u> } }	) (4)	5 / KG	3/3	0 X/80	10/KB	3	<b>5</b>	2 3 3 3	24/kg	8 / Y	24/85 54/85	4/6n	va/ka	3	ug/kg	64/KG	3	<b>9</b> /80	5 / 6 / C :	3	2	5 / S	2				
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	VALUE	100 yla 170300 170300	QUAL UNITS	<b>a</b>	VALUE	QUAL CHITS	ಕ	ARTOE			3	ALUE	MONTH OF 12	<b>4</b>
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bia (2.chloroethyl) ether		· 5.91	64/85 76/83	9 9	38		28		) <u> </u>	7 S 2 S	320	38	ug/kg	<b>3</b>
1,4-Dichlorobentere	State Ngara Manga		2,40	96	380	<b>-</b>	88		<b>-</b> -	59/kg 10/kg	350 350	 88	J 49/kg	<u> </u>
Benzyl Alcohol 1.2-Dichlorobenzene	• .	4"	7.7 ? ?			· =			· <b>3</b> :	, e	<b>1</b>	5	ug/kg	~ 57.
2-Nethylphenol		3 . 2 .	2/2	\$ P	25	<b>&gt;</b> =	8 5	350		10/kg	25	3 3	13 CG/Kg	nos S
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Hexachloroethane		⊃ :	ug/kg	950	88	<b>-</b> -		350	- 	19/kg	350	33	19/kg	33
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2-uitrochenol		2	)       	340	38	· >			_ :	ug/kg	320	98	ug/kg	360
2,4-Dimethylphenol		20%	2,43	9£	ج 190	29/kg	•		===	10/Kg	\$ £			8
Benzole seld			61/61 19/40	340	200	. <b>-</b>	<u> </u>	• • * • * !!	ı –	5/kg	320	360	ug/kg	360
2,4-Dichlorophenol		3	ug/kg	S.	88	<b>&gt;</b> :		M L	⊃ : ⊃ : c	16/kg	350 550 550	33	J 49/kg	33
1,2,4-Trichlorobenzene			20/Kg	<b>7</b> 2	× ×			•	: >		326	<b>3</b>		3
Machine (end			5 S	35	25	3				no/ka	32	98	04/kg	<b>9</b>
Hexachlorobutadlene			ug/kg	8	25	<b>-</b> :			) )	14/Kg	2 S	33	1 UG/KB	33
4-Chtoro-3-methytphenol	<i>f</i> .	Ę	uo/ka		26			[3] [4] [6]				3	1 /kg	260
Mexach lorocyclopentadiene		3	10/kg	9	8	_ :			3:	<b>2</b> /21		9 S	69/kg	92
2,4,6-Trichlorophenol			<b>19/kg</b>	95 8 8	3 5				20 C	24/kg 16/kg	320	3		3
Dimethylphinalate 2 4 Sitrichlandhend				5	<u>\$</u>	-	-		_ 	w/kg	2	1800	gy/kg	0 <u>0</u> 2
2-Chtoronaphthalene			54/kg	340	390	<u> </u>	•		320 C	64/en	2 E		29/kg	3
2-uitroaniline		2 5 2 5 2 5	56/Kg	35					) 3		25	3		380
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Acenephthene	- 1 :. 3	750 0	mo/kg	3	26 S	<b>-</b> :	<b>S</b>	1. <b></b> 1	350 C	5 / Kg	3		19/kg	<b>3 5</b>
2,4-Dinitrophenot	1, 53 1 9 168 1, 203 1879-1		2 S	9	200		196		33	? 5 ? 5		_		1800
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2,4-Dinitrotolume		⊃= 93	3,	35	<u> </u>	og/kg	88		350 c 350 c	2/2 2/2 2/3	20 20 20 20 20 20 20 20 20 20 20 20 20 2	33	- 49/kg	33
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	Lab Sample Number: Site Locator Collect Date:	et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et les et
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		R.G. SVOC (6270-24)  R.G. SVOC (6270-24)  Anilina  bis (2-Chioroethyl) ether  1, 3-Dichlorobenzere  1, 4-Dichlorobenzere  1, 4-Dichlorobenzere  1, 2-Dichlorobenzere  2, 4-Dichloropenzere  2, 4-Dichloropenzere  8 march orcethare  N. Hirobenzere  1 sophorone  2 - Hethylphenol  2 - Frichlorophenol  2 - Dimethylphenol  3 - Simple orcethoxymethare  4 - Chioroaniline  4 - Chioroaniline  4 - Chioroaniline  5 - Simple orcethorophenol  2 - Methylraphthalene  2 - Simple orcethorophenol  2 - Simple orcethorophenol  2 - Simple orcethorophenol  2 - Simple orcethorophenol  3 - Simple orcethorophenol  2 - Simple orcethorophenol  3 - Simple orcethorophenol  4 - Chioroaniline  Acenaghthylane  2 - Sinitroaniline  Acenaghthylane  3 - Sinitroaniline  Acenaghthylane  3 - Sinitroaniline  Acenaghthylane  3 - Sinitroaniline  Acenaghthylane  3 - Sinitroaniline  4 - Sinitroaniline  Acenaghthylane  3 - Sinitroaniline  4 - Sinitroaniline  Acenaghthylane  3 - Sinitroaniline  4 - Sinitroaniline  Acenaghthylane  3 - Sinitroaniline  4 - Sinitroaniline  Acena
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Lab Sample Number: Site Locator Collect Date:	#7675011 #FADATA 26802201 05-AUG-94	<u> </u>	M7 R 28 28 05 VALUE QU	M7675010 RFADATA 285502301 05-AUG-94 QUAL UNITS	<u>م</u>	VALUE		N7675009 RFADATA 28SSO2401 05-AUG-94 QUAL UNITS	16	VALUE	M7675008 RFADATA 28SS02501 05-AUG-94	, w	ಕ
	Site Avion												
6KG SVOC (8270+24)			11 072	24/40	177			10/64	8	350	- -	ug/kg	350
M-Mitrospdisethy(smine	350 5 55/49	200	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 /s	35		320 C	) }	2	320	· = :	ug/kg	350
Antiles	• •		340 U	09/kg	340		350 U	2/2 2/3/3	3 %	350 350	<b>-</b> -	2/2 2/2 2/3	320
big (2-chlorosthyl) ether	50 CG/KG		340 0	56/80 8/80	3		320 E	? ?	32	320	_	ug/kg	320
1,5-Dichlerobenzene	350 U ug/kg	2	340 U	ug/kg	23		٦: د		ر د ک	350 855	<b>-</b> =	ug/kg 18/kg	
	350 C LD/K		0 0 0 7 E	ug/kg ua/ka	3 %			2 2 3 3			, _{&gt;}	2/kg	32
7,2-015810168 <del>52878</del> 2-14+hvlchenol			340 0	ug/kg	2		320 0	2 2	33	350	<b>-</b> :	69/kg	350
bis(2-Chloralsopropyl)ether	- -	<u> </u>	340 5	ug/kg	9,5		350 0	Kg <b>(</b>	2 S		<b>-</b> -	6/2 6/2	32
N-Hitrogo.di-n-propylesine	350 U UQ/Kg		340 0	, 5 2 3 3	3,0		350 U		2	8	· :	ug/kg	350
Mitrobantene	350 U		340 U	ug/kg	25		320 =	5 /S	32	350 551	<b>-</b> =	5/kg	5 E
	320		240 U	5/45 5/45	240		350 0	2 2 2 2 3 3	R		, <u> </u>	5/kg	32
	320 E		340 U	4, kg	340		320 U	mo/kg	25	350	<b>-</b> :	ug/kg	85 55 56
		1. 14 1. 14	1600 U	ug/kg	99	_	_ 2 2	2 ; 2 ;			<b>&gt;</b> =	54/kg	3 5
bia(2-chloroethoxy)methane	350 U 19/kg		340 0	5 6 5 2 5 2 5 2	33		320	? ? ? ?	R	32	-	. 6 . 6 . 6	200
2,4.Dichloropherot			340 U	10 /kg	32		350 G	2/kg	320	350	<b>-</b> :	<b>10/kg</b>	350
Naphthalene	350 L	2 S	2	09/kg	9,70		220 220 220 220	2 2 3 3	28	320		45/kg	200
			340 0	54/kg	340		320 C	54/85 54/85	S :	320	<b>-</b> :	<b>19/kg</b>	320
4-chioro-3-methylphenot	350 U		340 0	64/80 64/80	340		350 350 =	)    }  }	S S	3 2	<b>,</b> >	ug/kg ug/kg	32
2-Rethylnaphthalene	350 U vg/kg	320	340 0	, S	200		350 U		Ž	32	- ت ج	ug/kg	55 E
2,4,6-Trichlorophemol	350 U		340 C	69/kg				2; 2;	25	320	<b>-</b> -	64/48 16/kg	32
Disethylphthalate	1700 U 49/Kg		1600 L	69/g	<u> </u>		) = 	72	2	2	· = :	ug/kg	<u>5</u>
2.chlorozahthalere			340 U	cg/kg	3,5		350 U	2 ! 5	225	350	<b>&gt;</b> =	62/Kg	2 <u>5</u>
	- 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170 - 170			64/80 18/80			7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		25	320	<b>,</b> =	50 Kg	S S
			200 A	ug/kg	7		350 0	2	S	8	<b>-</b> :	ug/kg	320
	3		_	_	•		3: 2:		7		3 =	<b>19/kg</b> 16/kg	350
cenaphthene	350 c		2 664	64/44 64/64	2 6					<b>1</b> 8	3	ug/kg	}
2,4 pinitrophenat A-Mirrophena					3		ے و	3	2;	1700	<b>-</b>	ug/kg	<u>5</u> 5
Dibenzofuran			<b>9</b> 2		7,0	<b>.</b>	2 2 2 2 2 3	2 : 3 :	78	320	<b>5 5</b>	5 /kg	32
2.4 Dinitrotoluene	350 U ug/kg				i A		320 C		S S S	320	<b>5</b>	ug/kg	320

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Lab Sample Number:	Number:	<u> </u>	M7675011		_	H7675010			M7675009		i	M7675008	9008	
	Site Locator	- 22	RFADATA 285502201			RFADATA 285502301 65-4116-02			285502401 05-416-94			28SS02501 05-Aug-94	285502501 05-Aug-94	
כסון	Collect Date: V	VALUE OF	US-RUG-94 QUAL UNITS	ద	VALUE	QUAL UNITS	4	VALUE	DUAL UNITS	S DL	VALUE	DUAL	QUAL UNITS	DL
4-Chiorophery (-pherylether		S	ug/kg	350	340	ug/kg	340	350	) 		350	350 U	ug/kg	350
Fluoren		350 350 350 350 350 350 350 350	<b>3/9</b>	֭֭֭֭֭֭֭֓֞֞֞֞֝֞֞֞֞֞֓֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞	950		1609	2.5 2.5	33		_	3 20	;	}
4-NITroghiline	3 - 3	38	 	2	99	u ug/kg	1600	2			_	D 002	ug/kg	1700
N-Ritrosodiphenylemine (1)		350	By/6n	350	340	u vg/kg	2	S;	_ <b>⇒</b> :			350 5	54/KG	555 0 555
1,2-Dipherythydrazine		350 €	Ma/ka	25	070	9/kg	₹ 2 *	2 2 2 2			350 450	200	19/kg	320
	.*·*	320 C	9/S	250	250	04/60 04/61		32.05				320 U	, s	32
	,	2 5			1600		1600	12.5	-			1700 U	<b>5</b> /kg	1700
Pentachlorophenol					340	ug/kg	340	350	-	; ;		350 U	ug/kg	320
			97/8 8	320	340	U ug/kg	340	32	_ 			320 C	00/kg	350
Di-n-Buty Dithelete		Œ.	2	350	340	ug/kg	240		2/20			)       	64/Kg	255
, 3 11 - 1 14 _{- 1} 35		320	By/dn		240	29/kg	3 5	2 S			•	320 C	3 /S	32
Pyrene		2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 S		340	2/25 24/25	2		) 			350 U	<b>5</b> 4/8	350
Witylbenzylphinatare		<b>?</b>		700	889	ug/kg	089	73	•			n 069	ug/kg	26
		350 U	<b>6</b> /8	320	340	u ug/kg	340	S.	ु =		0.5	320 C	6 / Kg	5 S
		350 u	2 2 3		9,0	64/80 D	340		_ 	9 (	<b>-</b> -	350 U	1 (A)	25
bis(2-Ethylhexyl)phthelate		320	2 }		7	24/kg	2 6	450	) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A		200	350 U	66/kg	320
y -"-"			81/65	2 C	245		240	120	: =×=			350 U	ug/kg	350
Benzo(b)fluorenthene		0 0CC			340	u va/ke	340	320	· <b>=</b>			350 U	ug/kg	350
JD.		320	ug/kg	320	340	U ug/kg	25	22	<u> </u>			350 u	64/g	320
Indend(1.2.3-cd)Dvrere		350 U		320	340	ug/kg	340	320	<b>-</b> :			350 U	6/Kg	5 S
Diberz(e.h)enthrecene		350 €		320	O S	20/kg	25	25	- -		200	200 200 200 200 200 200 200 200 200 200	64/40 64/40	150
Benzo(g,h, i)perylene		3.05.		ב ב ב	3 5	19/kg	¥ 5				•		5/kg	15 10 10 10 10 10 10 10 10 10 10 10 10 10
2-Picoline		320			24	5 (%)		35	-			350 U	ug/kg	320
Settle Technology (Control		350 U		320	340	ug/kg	3	320	•			320 C	64/80 	320
Acetocherane	•	350 U		200	076	U 49/kg	95		) -		25	350 0	64/80 18/40	350
M-Mitrosopiperidine			<b>26/</b> Kg			100/kg	199				-		5/kg	1700
Phenyl-tert-butylenine		320		32.0	74	c	2	350	·			350 U	<b>5</b> /kg	320
N-attroso-di-n-butylamine		350 L	- <b>5</b>	22	3	U ug/kg	3	9	<b>.</b>		350	350 0	5.4 5.4 5.4	55 655
M-Nitrosodiethylosim		320	20/kg		3, 3		3 5	22			320	320 0	2 5	320
N-Witrosopyrolidins			51/O:		<u> </u>	3	20000		.3			30 PE	64/kg	
1 2 4 Seferent orghanese			2	2	1600	_	<b>3</b>	2			_	ョ: 2:	64/6 64/6	2
Pentachlorobenzene		1007	ug/kg	2	<u> </u>	09/kg	<b>8</b> 5	21				= = = = = = = = = = = = = = = = = = =	5 /S	3 5
1-Naphthylasine			5/2 5/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3	3	35	11.1 Log/kg	<u> </u>	<u> </u>	, 3			388	, 5 , 5 , 5	1
		320		350	340	,	340	350	<b>.</b>			320 €	<b>5</b> /kg	350
		S	_		35		grounds	2	<b>3</b> :		0 N		64/kg	320
4-testroblishenyt		2		į	<u>8</u>	5/80 5/80	1400				1700		54/s	1700
Pentachi oroni trobenzene	100000 100000 1000000				3	_	27	Ä				350 U	54/kg	350
Pronted de	65, 656 4006.	22		i Si	3		XG XG		-			350 U	64/6n	350
7 12-Dimethylbent(AlAnthracer)e	. 2	350		320	3	10/kg	3		<b>3</b> :		25	350 C	64/48 54/48	0 C E
3-Nethylcholanthrame		2	64/80 1	Z .	95	2/6/20	3 5						3/3	<u> </u>
Pyridin				350	<u>₹</u>		33			( ) ( 		_	ug/kg	350
M-MItrosomethylethyletine		28		38	3	U ug/kg	2		_	9		350 U	ug/kg	320
							200.00						•	4

Lab Sample Mumber: Site	mber: Site	M7684004 RFADATA	00% ATA		-	H7684005 RFADATA			M76	M7675012 RFADATA			M7675013 RFADATA		
Locator Collect Date:	Locator it Date: VALUE	28SS01901 06-AUG-94 QUAL UNIT	28SS01901 06-AUG-94 QUAL UNITS	ಕ	VALUE	28SS02001 06-AUG-94 QUAL UNITS	ر م	VALUE		28SS02101 05-Aug-94 Qual units	4	VALUE	28SS021010 05-AUG-94 QUAL UNITS	s	_
4-Chloropheryl-phenylether	X2	1 055 1 055	ug/kg	350	350	U ug/kg		350	710 1	ug/kg	25	98.2	= =	9	33
4-Nitroeniline	{ <b>E</b>	)	? ? ?	22					28	2 Z 3 Z	¥. 8	85	<b>,</b>	9 9	<u> </u>
6.6-Dinitro-2-methylphenol	E:	2 : 2 :	ug/ke	25		u ug/kg		2	コ: 8:	) (Kg	8;	170	<b>&gt;</b> :	<b></b>	8
1 2-0 ichenylhydrazine		) 29	9 <u>9</u> <b>3</b> 3	28	200				2	5 (Kg	25			<b>5</b> 9 <b>5</b>	33
4-Bronophenyi-phenylether		) 	2	3	_	u ug/kg			70 0	2 2	2	38	· >	, 9	3
	H	2 : 2 :	5 2 3	9;	_ :	u ug/kg			740 U	ug/kg	2	8	<b>-</b> :	9	3
(C)		> = 2 S	2 2 2 3 3 3 3 3 3	35		. 49/Kg			2005	3 3 3 3 3	3 5	92,1	09/kg	<b>9</b> 9	
Anthacero		) } }	2   3	<b>3</b>	320	gy/go n		2	2 2 2 2 3		2	32	) <b>&gt;</b>		3
thalate		> :	ug/ka	<b>S</b> ;	320	19/kg	_	S 5	300	<b>8</b>	2	22.5	7/8	9	;
	* **	2 S	6 44 6 46 7 40	38	320			320	25	2 2 3 3	22	22		<b>.</b> 9	33
Butylbenzylphthelate	A	- -2	<b>2 2 2 3</b>	3	320	U ug/kg		350	710 U	ug/kg	2	9			3
		⇒: 89	ug/kg	23	2007	UJ 109/kg		750	7.00 C	64/kg	25	23	<b>-</b> =	9:	23
	**	 28	5 5 5 5 5 5	88	350			202	25		2	32	3 3 3 3 3 3	<b>.</b> 9	33
bis(2-Ethylhexyl)phthalate	<b>X</b>	고: 오!	wo/kg	<b>S</b> ;	350	u ug/kg		22	75 U	2 2 3	2	3	<b>-</b> :		;
Besselhiftenate	<b>*</b>	<b>-</b> =	2/Kg	3 2	25.5	09/kg		350	7.0 C	5 /S	25	35	*** ***	<b>.</b>	33
Benzo(k) fluoranthene	i in	: : =			320	u ug/kg		22.5	70.0		2	88	, _		3
Benzo(a)pyrene	in i	⇒: 9:	By/ga	9;	350	U 09/kg	_	350	2; 2;	<b>69/kg</b>	2;	986	<b>-</b> :	9	9
Dibensia hisothere	X P	> = 7	2 / KB	33		2/kg		35 C	=======================================	6/Kg	25	3 3	04/40 14/40	<b>9</b> 9	33
j	( <i>P</i>	) 2 2	Z/K	3	320	56/kg		Tallin Jawa Liffin	2 2 2	? 2 3	2	38	, ,	, e,	3
2-picoline		2 2	6×/8	92	1700	09/kg			28	- - - - -	**	5. 6.	<b>5</b>		92
Tethy! Reshareaul tonese		)   	20/xa	<u> </u>	250	09/kg		350 350	3 = 2 <b>2</b>	2 2 2 3	Į	35			5
Acetophenone		- - -	2 2 2 3	2	320 (	ug/kg		20	7.0	3	2	3			3
#-#frosocioned		360 500 500 500 500 500 500 500 500 500 5	4/kg	<b>3</b>	350 1	U 46/kg	_		= = = = = = = = = = = = = = = = = = =	\$/\$/ \$/\$	25	360	<b>-</b> :		38
2.6-Dichterohenel		· –	5 /kg	3	350		• 		) ]2	7 <u>9</u> 3 3	12	<u> </u>			<u> </u>
Will trospidinibuty seine	<b>M</b> i	a :	€/kg	<b>3</b>	350 1	04/kg	_	<u>ي</u>	70 U	<u>\$</u>	21	8	7/89	_	3
itrosociathylanna itrosockrajidine	<b>1.6</b>	- - 29	50/kg	35				22 32 0		9 2 <b>9</b> 3	22	33			33
9000		3	, s	2	1700	- ca/kg	_		3480 C	2		170			
1,2,4,5-Tetrachlarobenzene		> = 2	5/¢	25	55	04/kg		2. 2.1	3 2 3 3 3 3	2 <u>2 3</u>	8 X	55	<b>ə</b> :	•	92.5
1-Haphthylanine	<b>.</b>	) ) )	? ?	38	28		- <b>-</b>		2 2 2 3	7 2 }	<b>1</b> 2	\$ £		<b>.</b> .	<u> </u>
		) 29	<b>5</b> /kg	23	1786	04/kg	<del>-</del>	2 2 2	3:	2 3	•	55	3:		971
		33	? ? }	•	320				. 3 2 2 2	7 5 <b>3</b> 5		33		<b>.</b>	3
4-Aminobiphenyi	<b>E</b> !	#: #:	ug/kg	2	1700	19/kg			7400 FT	  -  -	) ()	178 178	3:		
Promitide	<b>:</b>	5 <b>8</b>		38	325						32	3 3		<b>.</b>	3
P-(Dimethylamino)azobenzene		2	Z/kg	8	320	10/kg	_	320	2	3	2	3	U ug/kg		3
7,12-Dimethylbenz(A)Anthracene 3-Methylcholanthrana		> = <del>?</del> 9	ug/ka ce/ka	33	320	1 49/kg		550 350		2 2 2 2 3	25	33		<b>.</b>	33
Pyriding	2	)     Q	?	2	1200		<u>-</u>		2 2 2	2/3	28	<u>5</u>			₹ <u>₹</u>
N-Microsomethylethylemine	<b>3</b> 3	> = 99	5/kg	33	350 1	J 49/kg		350 150	25 2 = 2	14/kg	22	33	2 - S		33
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H7675013 RFADATA 28SS021010 05-AIE-94	IL UNITS	ug/kg	ug/kg	<b>2</b> 9/kg <b>2</b> 9/kg	ug/kg	ug/kg us/ka	56/kg	59/kg	5 /S	69/kg	5 /kg	69/kg 78/kg	cg/kg		
H76 RF 2855 05-	VALUE QUA	360 U	17000 U	1700 5	36000 U	2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	360 U	17000 UJ	368	17000 UJ	2 2 2 2 2 3 2 3 2 4 3 7	360 c	. 00	2 5 2 5 2 7	
	4	710	34,600	88 XX	788	25	2				32	2		13	
M7675012 RFADATA 28SS02101	UAL UNITS	ug/kg	2 5 2 6 3 7 8	9/2 2/2 2/2	3	54/kg	3 3	- Cg/kg	2 5 2 5 2 7	9	2/2	50/kg	(¥,	2 2 3 3	
Z-85	VALUE	710 U	3,000 %	2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	7.000		200	34000 U	2004 2007	00075	246 2012	70 L	6. BC 6	3400 710 L	
	ಕ	350	₹	02. 06.	32000	350	320		150	<b>\</b>	350	320		95 58	
RFADATA 285502001	JO-AUG-94 RUAL UNITS	ug/kg	04/kg 09/kg	ug/kg	5 /S	ug/kg	ug/kg	- 64/kg		5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5	ug/kg ug/ka	<b>69/kg</b>	69/kg	ug/kg	
#76 #76 2885	VALUE QU	350 U	1700 U	1700 U	35000 U	350 6	350 U	17000 R	1700 UJ	17000 R	1700 130 U	350 0		1700 u 150 u	<b>,</b>
	늄	360		2	3608 1	360	<b>3</b>		2; -	<b>3</b>	3	3		3	
N7684004 RFADATA 285501901	06-AUG-94 Onal UNITS	U vg/kg	CJ (46/49			Z   Z   Z   Z   Z   Z   Z   Z   Z   Z	5/2 2		- <b>25/</b>	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	- CE / CE / CE / CE / CE / CE / CE / CE	3 =	2 S	U to/kg	
	ALIE	360	- 1. - 1.	2		3	33	200	2	3.55 3.55	1700	33		1700	*
Lab Sample Number: Site Locator	Collect Date:											(2)			
			Hexach loropropene	p-Phenylenedionine Sefrale	Isosafrole	1.4-Naphthoquinone	5-Hitro-o-toluidine	1,3,5-Trinitrobenzen	Methapyrilene	3, 3'-Dimethy (benziding	Aranite	2-Chlorophenol	4-Hethylphenol	Hexachiaropropene	2-Acetylaminofluo

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qe	Lab Sample Number:	=	H7684015		<b>E</b>	684016		*	7684017		`E'	684018	
	Site	^	RFADATA 28SS01501		- 2	RFADATA 285501601		- 20	RFADATA 285501701		<b>-</b> 82	RFADATA 285501801	
	Collect Date:	. 0	96-VIIC-96		8	- AUG-94		<b>a</b>	5-AUG-94			AUG-94	
		VALUE O	OUAL UNITS	10 11	VALUE	PUAL UNITS	Dľ	VALUE	MAL UNITS	۵	VALUE OL	MAL UNITS	Dr.
De Tolinidine		350 U	Ug/ks	350	350 U	ug/kg	350	370 U	mg/kg	370	360 U	ug/kg	<b>3</b>
Hexacht propropene	edeluiti Status st Status st Status st	1700 L	75		1700 U.			2008 2008 2008 2008	6/ca 6/ca 7/ca		1700 U.		
p-Pherry Lened Lanine			3 3	120	1700	ua/ka	1700	1800 U	(S/Kg	180	1700 U	ug/kg	1700
		32.	7	1.00	1700 L	ua/ka	1700	1800 U	ug/kg	<b>28</b>	1700 to	cg/kg	178 28
	eller T	15000	, oo/k	35000	35000 U	ug/kg	35000	37000 U	5/kg	37000 1	36000 U	<b>1</b> 0/kg	36000
		350	19/km	350	350 U	ca/kg	320	78.	ug/kg	22	360 U	ug/kg	<b>2</b> 60
A 14 14 14 14 14 14 14 14 14 14 14 14 14		350	La/k	320	350 €	ug/kg	350	370 U	ug/kg	2	360 c	ug/kg	9
A Katrinterobenses		350 U	J ca/k		350 U.	ug/kg	ж.	25	5/kg		360 U	ug/kg	
4.21 - rogi(no) (n4.1.0x (de	eri.	17000 I	S/ks		17000 R	ug/kg		18000 #	ug/kg		17000 R	<b>19/kg</b>	•
Hetherori Lene		1700 L	1 CO /k	2	1700 ₺	ug/kg	1700	1800 1800	eg/kg	요 음 음	1700 U	<b>16/kg</b>	002
3 34-Dimethylbenzidine		350 (	1 40/k	350	350 U	ug/kg	320	22	69/kg	25	98	<b>1</b> 2/kg	3
Hexach Lorophene		17000	3/Bn		17000 R	ug/kg	٠	# 00091 # 000091			# 1200 # 2002	US/Kg	
Areaite		1902	× × ×	-	1,007r	09/Kg	350		19/Kg	02.5	5	- 66/kg	360
2-Chlorophenol				720	350 0	64/60 64/61	350	170 1	7 /co/kg	370	360 U	5/kg	360
2- 4 - Methylphenol (2)	٠		3		,	no/ko	Take Take	l Iv• Id	ua/ka		•	ug/kg	
6-Metny prepor		1, Av			•	ug/kg		•	ug/kg			<b>50/kg</b>	
Herent broncomen	. **	1700 L	7/23		1700 U.	l ug/kg		1800 0	04/80 C		1700 U.	ug/kg	;
2-Acetylaminofluorene		350 L	75	350	350 U	ug/kg	320	320 0	9	2	200	08/KB	9
								. :	19.7 19.7 19.7				

S. ESTIMATED
1.4-DICHLOROBENZENE WERE GENERATED FROM THE SVOC (B270) ANALYTICAL RUN.

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M7684018 RFADATA 285501801 06-AUG-94 QUAL UNITS	100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 100/kg 10
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M7684015 RFADATA 28SS01501 06-AUG-94 QUAL UNITS	######################################
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	<b>90</b> / <b>V</b>
Lab Sample Number Site Locator Collect Date	
	BKG SVGC (GZZD+24)  B-Nitroacdimethylamine Phanol  Anilina  Anilina  Anilina  Anilina  Anilina  Bis (Z-Chloroethyl) ether  1,5-Dichlorobenzene  8-mzyl Alcohol  1,2-Dichlorobenzene  8-mzyl Alcohol  1,2-Dichlorobenzene  8-mzyl Alcohol  1,2-Dichlorobenzene  Nitrobenzene  Nitrobenzene  1,2,5-Trichlorobenzene  Nitrobenzene  1,2,5-Trichlorobenzene  Nitrobenzene  1,2,5-Trichlorobenzene  1,2,5-Trichlorobenzene  1,2,5-Trichlorobenzene  2,4-Trichlorobenzene  1,2,5-Trichlorobenzene  2,4-Trichlorobenzene  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,4-Trichlorophenol  2,5-Trichlorophenol  2,5-Trichlorophenol  2,5-Trichlorophenol  2,5-Trichlorophenol  2,6-Trichlorophenol  3,6-Trichlorophenol  3,6-Trichlorophenol  3,6-Trichlorophenol  3,6-Trichlorophenol  3,6-Trichlorophenol  3,6-Trichlorophenol  3,6-Trichlorophenol  3,6-Trichlorop
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	N7684018 RFADATA 285501801 06-AUG-94 GUAL UNITS	ug/kg	64/kg	10/kg	7/67	64/kg	.50 ≥	<b>58/k</b>	<u> 7</u>	Ž,	5	5	2 /2 2 /2	<b>5</b> 8/k	<b>3</b>	2 3	2 /2	7	y/g	<b>2</b>		3	<b>7</b>	3	2/8/	20,00	ug/kg		, 60 X	<b>20/k</b>	9/8/	3	7 ×	24/Kg	y/kg	ug/kg	2/85 24/85	3	<b>5</b> 9/k	7/K	, ×	49/kg				
	M764 RFI 28SS VALUE OUA	18	366	255	3098	360 u	360 U	360 u	1700 U	2 09K	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	200	200	760 ∪	720 U			360 2	360 t	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 9 8 9 8 8	360 U	360 5	3 00 C	= 3 3 3	3092	D 360 U	3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	360	3 09E	2 5	382	1700 U	200	300	_		3098	_	= = \$ \$	2 2 2 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	n 09£				
	ā	5	25	35	378	25	370	220	1800	370	2	25	2.C	370	740	22.	222	25	378	<u> </u>	2.C	2	22	<b>2</b>		R	2	5	Z T	£i	R:	3	1800	2	38			38	2.5	P.F	1806	2				
	M7684017 RFADATA 285501701 06-AUG-94	us/ka	50 kg	5 / S	) (S	66/kg	) }	, S K	, S	19/kg	64/g	2/2	0 X / S	7 /Kg	ug/kg	ug/kg	2,5	7/kg	. S	ug/kg	9	2	3	<b>8</b> /8	2	7 7 3 3	to/kg	9 : 9 :		3	29/kg	3 °	2	3		)     	2/P		3		7,2 2,2 3,2 3,2 4,2 4,2 4,2 4,2 4,2 4,2 4,2 4,2 4,2 4	3	<u>2</u> 3			
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MAVSTA MAYPORT Surface Soil D	M7684016 RFADATA 28SS01601 06-AUG-94	S Park	49/g	ug/kg	19/kg	54/5		15/Kg	10/kg	,	ug/kg	ug/kg	ug/kg	10/kg	4/kg	64/g	ug/kg	64/80 64/80	100/kg	59/kg	<b>19/kg</b>	9/kg	3/3	64/65 C	09/kg	69/kg	, y	ug/kg	5 /S	64/kg	ug/kg	69/kg	3 2	54/kg	64/Kg	5 /s	09/kg	54/kg	09/kg	<b>20/kg</b>	00/kg		ug/kg			
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Surface Soil Data

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	Lab Sample Number: Site Lostor Collect Date:	
	r ap 2	MKG SVOC (8270-24)  National  Antition  Antition  District (2270-24)  National  1, 4-0 ich lorobenzene  1, 4-0 ich lorobenzene  2-1 ich lorobenzene  1, 2-0 ich lorobenzene  1, 2-0 ich lorobenzene  2-1 ich lorobenzene  1, 2-0 ich lorobenzene  Naticoparone  2-1 ich loropenzene  1, 2-1 ich loropenzene  2-1 ich loropenzene  2-2-1 ich loropenzene  2-3-1 ich loropenzene  3-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1 ich loropenzene  2-4-1
		a syoc (8270-24)  a. Aitroacdisethylasine  Aniline  Aniline  1,3-Dichlorobenzere  1,4-Dichlorobenzere  1,4-Dichlorobenzere  1,2-Dichlorobenzere  2,4-Dichlorobenzere  2,4-Dichlorobenzere  2,4-Dinitrobenzere  2,4-Dinitr
		MKG SVOC (8270  M-Mittee adding  bened  1,3-Dichlord  1,4-Dichlord  1,2-Dichlord  1,2,4-Tichl  1,2,4-Tichl  1,2,4-Tichl  1,2,4-Tichl  1,2,4-Tichl  1,2,4-Tichl  1,2,4-Tichl  1,2,4-Tichl  1,2,4-Tichl  1,2,4-Tichl  1,2,4-Tichl  1,2,4-Tichl  1,2,4-Tichl  1,2,4-Tichl  1,2,4-Tichl  1,2,4-Tichl  1,2,4-Tichl  1,2,4-Tichl  1,2,4-Tichl  1,2,4-Tichl  2,4-Dinitrod  1,3-Hitrophera  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dinitrod  1,4-Dini

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M768 RFA 2855 06-A VALUE QUAL	360 U 360 U 360 U	202	2 2 2 2 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2	3.55 2.55 2.55 2.55 2.55 2.55 2.55 2.55	2 65 2 5 2 5 2 5	360 U	360 E	907	 	90	n - 47	7 27	2	7 :	7 : R:	, - 9 G	9	25	20 7	1700 UJ	200	360 55	360 UJ	1700 U		360	360 52	200	1700 C	1700 U	1700 U	2 5	_	1700 U		3 = 6	200	1700 UJ	3.092	2005 2005	
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M7684010 RFADATA 28SS01001 06-AUG-94 QJAL UNITS	ug/kg ug/kg	2, 2, 2, 2,	5 5 2 3 3 3	2 2 3	92/93 193/93	3	3.	) 2 2 3	? 2 }	Lg/kg	9. 20.	09/kg	2/2	ug/kg	<u>9</u> 3	9./ <b>9</b>	2/25 2/25	- 7k	te/kg	- 44/kg	9 ) 9 !	7 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	uo/ka	ug/ka	2 <u>3</u> 3		1 10/kg	2. 2		)    - 	<b>19/kg</b>	<b>3</b> /2	6/kg	24/g	<b>5</b> /kg	2/2 2/2:		1 54/kg		9/3	
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M7675019 RFADATA 28SS00901 05-AUG-94 QUAL UNITS	ug/kg ug/kg	ug/kg ug/kg	69/kg	ug/kg	ug/kg	ua/ka	. 64/kg	5/kg	5/80 7/80	ug/kg	UJ ug/kg	24/kg		U ug/kg	J ug/kg	gy/kg	08/kg	10/kg		J ug/kg	J Gg/kg	2/83 8/83	2/25	J ug/kg		100/Kg		UJ vg/kg	24/Kg		u ca/kg	ug/kg			u ug/kg	_			U ug/kg	u cg/kg	
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M7698013 RFADATA 28SS00801 10-AUG-94 MIAL UNITS	ug/kg ug/kg	2/8 2/8	2 X	? ? ? ?	84/8n		77	o wa/ka		,		9/9 1			U VS/KS			2 / Y							Æ	9 X X	3 <b>3</b>		• • • • • • • • • • • • • • • • • • •			<b>-</b>	3:		) =	- -	- ->:	) 	) )		的复数医多种 医二十二
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Lab Sample Number: Site Locator Collect Date:	4-Chi prophenyl-phenyl ether	nitine for 2-methylphenol					Phenanthrene				4 4 thichlorobenzidine	Benzo(a)anthracene	Chrysere	=	DI-T-CCV PRINCE - A. C.			Indeno(1,2,3-cd)pyrane	Diberz(a, b)enthrecene					#-#-(100001001001001001001001001001001001001		M-Mitroso-di-n-butylanine		olej) Se o	1.2.4.5-Tetrachlorobeniene	Pentach (probenzene	1-Kaphthylamine	2.1 6.6-Tetrachloropherol	Phenacetin	4-4al nobipheny		NTCOMMUNICATION OF THE COMMUNICATION 2-Dimethylbenz(A)Anthracere	3-Hethylcholanthrane	Pyridina	M-Nitrogomernyteinyteine M-Nitrogomernyteinyteine		

	Collect Date:   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   Marc																
1	Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Dates   Collect Date	tab Sample Num	mber: Site	•	47675015 RFADATA			2 "	'675016 FADATA			M767501 RFADAT	<u>~</u> «			17675018 RFADATA	
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11. 10.00	1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,00	4-Chlorophenyl-phenylether		1400 1400			007		ug/kg	1400		<b>&gt;</b> =	/kg	25	•		55 5
Column	1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,00	+ Hitrogrifine		6700			2	6800 U	ug/kg	0089		) )	25	동	25		? <u>₹</u>
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100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,00	M-M-Introduction (1)	1967 1964 1977	2 5 2 5	8 8 1		85	2021	BX/Bn	202	22	<b>5</b> ⊃:	Z.	£i	_		r i
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100 U	100	Butylbenzylphthalate		1400 L	2 /g		8	_	ug/kg	1400	710	3	/kg	2			3 23
1,000   1,007   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,00	1,000   196/45   1,000   196/45   1,000   196/45   1,000   196/45   1,000   196/45   1,000   196/45   1,000   196/45   1,000   196/45   1,000   196/45   1,000   196/45   1,000   196/45   1,000   1,000   196/45   1,000   1,000   196/45   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000	3,3'-Dichlorobenzidine		2800	ug/kg	~	000	7800 n	ug/kg	2800	1400	3	/kg	1400	n 069	ug/kg	8
100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   1000   10074   10074   10074   10074   10074   10074   10074   10074   10074	Benzo(a)anthracene Chrosene			8/8 2/8		B 5	2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	C9/kg	92	25	<b>5</b> :	8.	25	320 -	ug/kg	<b>#</b>
1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   units   1,000   unit	1000   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400   us/vs   1400	bis(2-Ethylhexyl)phthelate		2004	2/2/2		<b>2</b>	2 0 0 7		907	25	3 9	/ka /ka	22	350		3 X
1,000   ug/kg   1,000   tug/kg   1,000	100	Di-n-octylphthalate	·	1400	1 ug/kg		00		ug/kg	1400	2	5	Ę	2	350 E	64/g	<b>3</b>
1,000   100/15   1,000   100/15   1,000   100/15   1,000   100/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,00/15   1,000   1,00/15   1,000   1,00/15   1,000   1,00/15   1,00	100   10   10   10   10   10   10   1			2021	1 ug/kg		95		ug/kg	6 6 6 6 6 6	25	5 : ===	<b>2</b> ;	2:	350 u	ug/kg	<b>S</b>
1,000   wayka   1,000   1,000   wayka   1,000   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayka   1,000   wayk	1500 U	Benzo(a)pyrena		202	5 /kg		39		58/59 58/59	202	32	3 9 	, k	2	350 1	49/Kg	2 ₩
1,000 U	1,000   \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \( \alpha \) \(\alpha \) \( \alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \) \(\alpha \	Indero(1,2,3-cd)pyrane		904	19/kg		00		ug/kg	1400	2	3	<b>.</b>	2	350 E		32
1400   1	1400 U uarks			82	5 /kg		<b>9</b> 5		8/8n	700	2;	<b>3</b> :	2.	2		ug/kg	ii)
1400 U	1400 U   uu/kg		aj s	2029	32/3		38		5,4 ks	0089				8		56/kg	÷
1,000   1,007   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,000   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,00	Etty interactivation (1900 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to ug/kg 1400 to			1400	L ug/kg				ug/kg	1.1 W	710	} ::	2				:
Halitotopiparidine	### if troop particles    100	Ethyl methanesul tonate		2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2/S		85		69/kg	95	2;		2	2		ng/kg	Ē
2, -0   chilorophenol	Pleary   1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	N-Witrosopiperidine		38	2/2 2/2	V I	38	1,004	66/g	202	35	9 § 	21			64/69 64/69	
1400 U ug/kg   1400 U ug/kg   1400 U ug/kg   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400   1400	1400 U ug/kg   1400 U ug/kg   1400    1710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710 U ug/kg   710	Phonyl-tert-butylemine		0029	`		2		ug/kg	9	3400	3	2	2400		64/g 06/kg	Ē
1400 U   USF/4   1400 U   USF/4   1400 U   USF/4   1400   T10 U   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   T10   USF/4   USF/4   USF/4   USF/4   USF/4   USF/4   USF/4   USF/4   USF/4   USF/4   USF/4   USF/4   USF/4   USF/4   USF/4   USF/4   USF/4   USF/4   USF/4   USF/4   USF/4   USF/4   USF/4   USF/4   USF/4	1400 U ug/kg			992			3		6 /g	95	22	5 >:	2	2:		ug/kg	in i
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	VALUE	88 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
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		8KG SVOC (8270+24)	ug/kg					•	=	40	7,0		- - -				20 ==	uo/ko	720
170	100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	N-Nitrosodimethylamine	•	À	) )   	ug/kg ug/ka	22	¥ ¾	<b>,</b> ,	ug/kg ug/kg	<b>12</b>		3 3 3	2 × ×	(#)		n :	ng/kg	22
100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	17.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.0	Antine			- - -	64/kg	25	<b>X</b> :	<b>-</b> :	ug/kg	36.		3 3 3	<b>46/kg</b>	# Þ		= = 2,2	56/KG	32
10	10	bis (2-Chloroethyl) ether		<b>R</b> P	)    -	64/kg	225	¥ %	<b>&gt;</b> =	64/80 CB/K0	¥ 38		3	2 / 2	M		, S	ug/kg	<b>'</b>
1,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,00	100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	1.4-Dichlorobenzene		A	2	58/kg	370	<b>3</b>	] 	ug/kg	38.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 2		2 . 2 .	<b>5</b>	m i		2°2	59/kg	22
100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	Benzyl Alcohol			_ :	6 7 8	2.Y	<b>3</b> 3	) = 0 =	54/kg	2 2			64/20 20/40	หั		25.5	sé,	22
17.0   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00   10.00	170   100/14   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   1	1,2-0 ichlorobenzene 2-Mathyl phanol		F	- - - -	2 / K	370	<b>X</b>	) )	5 5 7 5	×		3	ug/kg	i <del>ř</del> i		n :	ug/kg	22
13.00   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10	Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   C	big(2-Chlorofsopropyl)ether		R	<b>=</b>	ua/kg	370	<b>%</b>	); 	ug/kg	36.		⊃ : 9;	50/kg	A P		2 S	59/Kg 56/kg	32
1000   10074   1007	1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000	N-Nitroso-di-n-propylamine		P	> = 2	64/kg	P. C. C.	\$ <b>%</b>	) <b>)</b>	56/kg Ka/ka	360		38	33	īM		n 02	cg/kg	2
1000   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074   10074	100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	Hexachtorostalas		'n	, p	2 /S	370		) )	ug/kg	36		360 1	ug/kg	m i		⊃ : 2,0	ug/kg /kg	22
100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000	Isophorane		5	۵: د	ug/kg	370		)   	ug/kg	,	: 	3 3 3	29/kg	÷ ĕ		    		32
100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	100   100/14   1500   100/14   1500   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   1000   100/14   100/14   100/14   100/14   10	2-mitroplienol		<b>2</b> 5	5	5 / S	26		) ) )	2 / S	ž		<b>3</b>	. 6 /kg	m		n 02	ug/kg	22
370   100/16   370   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   100/16   360   360   100/16   360   360   100/16   360   360   360   100/16   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   3	170   100/16   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   1			- S			180	_	, D	ug/kg	190		1600 U	ug/kg	<b>E</b>		- : :::::::::::::::::::::::::::::::::::	- 19/kg	325
370 U	370   1 mg/kg   370   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   1 mg/kg   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   36	big(2-Chtoroethoxy)methane			_		370		> : 0 :	ug/kg	36.		2 2 3	3	iñ iñ		  	64/50 64/51	25
370 U         1976 U         370 U         1976 U         360 U         1976 U         360 U         1976 U         360 U         1976 U         360 U         1976 U         360 U         1976 U         360 U         1976 U         360 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U         1976 U	370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16         370 U 199/16<	2,4-Dichiorophanol			2 : 2 :	- 54/kg	25		<b>)</b> =	19/kg	9 %	· · ·		* × ×	'n		2 2 2 2 2	5/kg	25
370 U 100/40         370 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40         360 U 100/40<	100   100/16   170   100/16   170   100/16   170   100/16   170   100/16   170   100/16   170   100/16   170   100/16   170   100/16   170   100/16   170   100/16   170   100/16   170   100/16   170   100/16   170   100/16   170   100/16   170   100/16   170   100/16   170   100/16   170   100/16   170   100/16   170   100/16   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170   170	12,4 Trichlorobenzene		r in	2 2 2 2	64/89 76/49	22		22	5 /kg	Ř	ر  انتخار	3	2/45	m		n 02	ug∕kg	2
370 U ug/kg         370 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg         360 U ug/kg	370 U         196/16         370         360 U         196/16         360 U			17.	2	, S	370		) 	ug/kg	¥,		3;	3	M i		- : 2:2	ug/kg :::/kg	22
370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674         370 U 19674	100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	Hexach Coputadiene		A	⊃: 2:	By/dn	25		<b>&gt;</b> =	2/S	\$3		3 3 3		A M		o	3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/	22
570 U         ug/kg         350 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg         360 U         ug/kg <td< td=""><td>370 U</td><th>4-Chloro-3-methylphenol</th><td></td><td>- P</td><td>, 2</td><td>2 S 2 S</td><td></td><td></td><td>) = 2 0</td><td>2 /S</td><td>* 3</td><td></td><td>2</td><td>5</td><td>A</td><td></td><td>n 02</td><td>64/kg</td><td>22</td></td<>	370 U	4-Chloro-3-methylphenol		- P	, 2	2 S 2 S			) = 2 0	2 /S	* 3		2	5	A		n 02	64/kg	22
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1500   U	1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/kg   1500   100/k	2,4,6-frichlorophanol			2 2	50/kg	22		> : 0 :	69/kg	93		3 : 3 :	9 9	A P		 	64/ga	32
370 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   1500 th   100 km   100 km   100 km   100 km   100 km   100 km   100 km   100 km   100 km   100 km   100 km   100 km   100 km   100 km   100 km   100	1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to ung/red   1800 to un	Dimethy (phthalate		m è	>: 2:	40/kg	75		<b>9</b>	29/Kg	, <u>2</u>			. 64/s	• 💆		28	رة الأرادة	3500
1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800	1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/kg   1800 to ug/k	2.4.5 Trichlorophenol		<u>.</u>	: : ::::::::::::::::::::::::::::::::::	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	32		9	. 64/s	ž		3 8	, S	PĀ (		⊃ : 024	ug/kg	22
370   146/kg   370   360   146/kg   360   360   146/kg   360   360   146/kg   360   360   146/kg   360   360   146/kg   360   360   146/kg   360   360   146/kg   360   360   146/kg   360   360   146/kg   360   360   146/kg   360   360   146/kg   360   360   146/kg   360   360   146/kg   360   360   146/kg   360   360   146/kg   360   360   146/kg   360   360   146/kg   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360   360	370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1 147/4 370 1	2-Hitroeni (Inc		<b>#</b>	。 名	ug/kg	180 180	_	э: 9:	<b>69/kg</b>	<b>8</b> 5		2 : 2 : 2 :	3			2 5 2 5 2 6 2 7	19/Kg	
1800   1	1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1800   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1 mg/kg   1	Acenaphthylene			2	. 42/Kg	こと		2 G	69/Kg	2 2		)  }	? <u>?</u>	) PT		n 92	eg/kg	22
1800 U. \text{ug/kg}   370   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350   \text{ug/kg}   350	370 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg         350 U         ug/kg <td< td=""><th>7-11-Frenilline</th><td></td><td>. 2</td><td>) 2 2</td><td>, <u>s</u></td><td>3</td><td>•</td><td>- - - -</td><td>64/go</td><td>2</td><td></td><td>2008 1</td><td>) )</td><td><b>₽</b>†</td><td></td><td>3:5</td><td>.g/kg</td><td>22</td></td<>	7-11-Frenilline		. 2	) 2 2	, <u>s</u>	3	•	- - - -	64/go	2		2008 1	) )	<b>₽</b> †		3:5	.g/kg	22
1500 U. ) US/Kg   370   US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/Kg   360   U US/K	1500 U. ug/kg 370 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg 360 U ug/kg	Acenaphthena		•	ے: 22	ug/kg	K	•		54/kg	Ř	_	3 <u>5</u>	2 S 3 S			28	\$ \ \ \ \ \ \ \ \ \	326
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NAVSTA MAYPORT

## GENERATED FROM THE SYOC (8270) ANALYTICAL RUN.

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	voca (82.60+11) hioracthana roacathana limit chloride hiorothana carbon disulfide 1.1-Dichlorothana 1.2-Dichlorothana 1.2-Dichlorothana 1.2-Dichlorothana 1.2-Dichlorothana 1.2-Dichlorothana 1.2-Dichlorothana 1.2-Dichlorothana 1.3-Dichlorothana 1.3-Dichlorothana 1.3-Dichlorothana 1.3-Dichlorothana 1.3-Dichlorothana 1.3-Trichlorothana 1.3-Dichlorothana 1.3-Dichlorothana 1.3-Dichlorothana 1.3-Dichlorothana 1.3-Dichlorothana 1.3-Dichlorothana 2-Hestnyl-2-pantanona 2-Hestnyl-2-pantanona 2-Hestnyl-2-pantanona 2-Hestnyl-2-pantanona 2-Hestnyl-2-pantanona 2-Hestnyl-2-pantanona 2-Hestnyl-2-pantanona 2-Hestnyl-2-pantanona 2-Hestnyl-2-pantanona 2-Hestnyl-2-pantanona 2-Hestnyl-2-pantanona 3-yiena (total) 1.3-3-Dichlorobantana Acrolen 1-3-Dichlorobantana Acrolen 1-3-Dichlorobantana Acrolen 1-3-Dichlorobantana Acrolen 1-3-Dichlorobantana
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2-Chloroethylvirylether Ethyl methacrylete 1.2.3-Trichloropropane trens-1.4-Dichloro-2-butene 1acburyl alcohol 1.1.2-Tetrachloroethane 1.2-Dibromo-3-chloropropane 1.2-Dibromo-1-chloropropane 1.2-Dibromo-1-chloropropane

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M7675008 RFADATA 28SS02501 05-AUG-94 QUAL UNITS

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Chloroprene kethecrylonitrile Hethyl methecrylat Pentachloroethare Propionitrile Vinyl scatate

S-chioropropens Acetonitrile

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	BKG voca (8250-11)  Chloromethane Broncomethane Vinyl chloride Chloromethane Vinyl chloride Chlorosthane 1, 1-Dichlorosthane 1, 2-Dichlorosthane 1, 2-Dichlorosthane 1, 2-Dichlorosthane 1, 2-Dichlorosthane 2-Butanone 2-Butanone 1, 1, 1-Trichlorosthane 2-Butanone 2-Butanone 1, 1-Trichlorosthane 2-Butanone 1, 2-Dichlorosthane 2-Butanone 1, 2-Dichlorosthane 2-Butanone 1, 1-Trichlorosthane 1, 1-Trichlorosthane 1, 1-Trichlorosthane 2-Butanone 1, 1, 2-Trichlorosthane 2-Hexanone 1, 1, 2-Trichlorosthane 2-Hexanone 1, 1, 2, 2-Tetrachloroschane 2-Hexanone 1, 1, 2, 2-Tetrachloroschane 2-Hexanone 2-Hexanone 2-Hexanone 1, 1, 2, 2-Tetrachloroschane 2-Hexanone 2-Hexanone 2-Hexanone 2-Hexanone 2-Hexanone 3-Hexanone NAVSTA MAYPORT Surface Soil Data

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qs1		1.2-Dichlorobenzene	2-Chloroethylvinylether Ethyl methacrylete	1.2.3-Trichloropropene	isobutyl alcohol	1,1,1,2-Tetrachloroethene	1,2.0[brompethane	3-Chloropropene	Chloroprene	Methyl methacrylate	Pentachloroethane Propionitrile	Vinyl scatate

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			NAV RFA SUF	NAVSTA MAYPORT Surface Soil Data								-
Lab Sempl	Lab Sample Number: Site Locator Collect Date: VALUE	M7684015 RFADATA 288501501 66-AUG-94 QUAL UNITS DL	VALUE	M7684016 RFADATA 28SS01601 06-AUG-94 QUAL UNITS D	3	VALUE	M7684017 RFADATA 28SS01701 06-AUG-94	<b>Z</b>		M7684018 RFADATA 28SS01801 06-AUG-94		
							C I HO TWO	<b>3</b>	ALUE VALUE	WAL UNITS	4	
6KG VICE (OCAU+11) Chioromethere Bronomethere	D / 65		3: 	ug/kg	=:		u worke	=	-	1 U ug/ka	=	
Vinyl chloride Chloroethane				ug/kg ug/kg	==:		9 <u>9</u> 9 2 3 3 3	<b>.</b>		1 UJ 49/kg	-	
Methylene chloride Acetone		)   <b>7</b> 2	3.0	ug/kg ug/kg	- ^ %	<u>-</u>		= <b>^</b>	:		==:	
Certain disulfide 1,1-Dichlorethare		<b>33</b> :	20 m	ug/kg ug/kg	N W			, , ,	<b>.</b> - · • ·			5 W 16
٤		) )	\$ PO PO PO PO PO PO PO PO PO PO PO PO PO	ug/kg ug/kg	<b>10 10 1</b>	EO 103 4	9/9n	<b>WW</b> 1			,	
1,2-Dichloroethare 2-Butanone		<b>&gt;</b> =:		ug/kg ug/kg	<b>,</b> ,		66/48 C6/48	<b>N 60</b>				
			10 PM	ug/kg ug/kg	N IO I	N.W.	20 kg	A IA			<b>IN IN</b>	
1,2-Dichloropropane cie-1,3-Dichloropropane				ug/kg ug/kg	n in ir		26/4	N O U			· ••• ••• •	
			**************************************	ug/kg ug/kg	) NV NV	) 10:10 ) = 3	7 9 9 3 3 3	n w r	n vn v	00/kg	W 100 12	
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penterone				<b>ug/kg</b> <b>ug/kg</b> is/kg	N N -	93:		mm;	in in ;			
700 Y 🖪		33:	5 2 2 2 2 2 2 2 2 2 2	ug/kg g/kg	:E^		2 9 2 2 2 3 3		=="	0 14/60 0 14/60 14/60	=="	
Toluene Chlorobenzene		00/kg		ug/kg ug/kg	N W I	>2:		<b>.</b>	, to to		. w.w	
Ethylbenzere Styrene				- 6 / 6 - 6 / 6 - 6 / 6 - 6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 / 6   6 /	, IO IO	) } }		N 40 E	יט יטו ט	09/kg 0 09/kg	N 10 H	
Trichloroftuoromethane 1,3-Dichlorobentene				ug/kg ug/kg	~ ~ ~ ~ ~	73: NW 5	22 33	· ·	, no no é			
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Acrylonitrille Dibromomethene		29/29 29/29 1		49/kg 49/kg 49/kg	8 5 7	223 224 224	5/2 5/2 5/2 5/2 5/2 5/2 5/2 5/2 5/2 5/2	85.	85. 25.	U ug/kg U ug/kg U ug/kg	<b>8</b> 5.	
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NAVSTA MAYPORT RFA Sediment Data

# APPENDIX C RISK EVALUATION CALCULATIONS

## Table C-1 Estimated Human Health Risk Surface Soil Contamination Associated with SWMU 26

Group I and II RFA/SV Report U.S. Naval Station Mayport, Florida

Analyte ¹	Maximum Detected Concentration	Residential Cancer RBC ²	Residential Cancer Risk ³	Residential Noncancer RBC	Residential Noncancer Risk ⁵
Volatile Organic Compounds (ug/kg)					
No Human Health CPCs Detected					
Semivolatile Organic Compounds (ug/kg)					
No Human Health CPCs Detected		<u> </u>			
Pesticides/PCBs (ug/kg)					
No Human Health CPCs Detected					
Inorganics (mg/kg)					
Arsenic	1.6	0.37	4E-6		
Beryllium	0.33	0.15	2E-6		
Total Cancer Risk			6E-6		
Total Noncancer Risk					

¹ The analytes listed exceeded one of the following criteria: a cancer risk of 10⁻⁶ or an adjusted Hazard Quotient of 0.1 based on the February 9, 1995 USEPA Region III Risk Based Concentration (RBC); proposed soil screening levels (presented in document USEPA 9355.4-14FS, dated December 1994); value established by Florida Department of Environmental Protection in their memorandum for Cleanup Goals for Military Sites, dated April 5, 1995.

Notes:

ug/kg = microgram per kilogram

mg/kg = milligram per kilogram

² The residential soil concentration listed represents a cancer risk of 10⁻⁶. The value is from the USEPA Region III RBC Tables dated February 9, 1995. For most analytes, the RBC table assumes a single exposure pathway. For most analytes, the RBC value is based on an ingestion route of exposure.

³ The cancer risk is an estimated value based on the assumptions used in the RBC tables.

⁴ The residential soil concentration for noncancer listed is based on a Hazard Quotient of 1. The value is from the USEPA Region III Risk Based Concentration Tables dated February 9, 1995.

⁵ The total noncancer risk is an estimated value based on the assumptions used in the RBC tables. The noncancer risks are assumed to be cumulative, even though different chemicals may effect different organs.

## Table C-2 Estimated Human Health Risk Subsurface Soil Contamination Associated with SWMU 26

Group I and II RFA/SV Report U.S. Naval Station Mayport, Florida

	renary process				
Analyte ¹	Maximum Detected Concentration	Residential Cancer RBC ²	Residential Cancer Risk ³	Residential Noncancer RBC ⁴	Residential Noncancer Risk ⁵
Volatile Organic Compounds (ug/kg)					
No Human Health CPCs Detected					
Semivolatile Organic Compounds (ug/kg)					
No Human Health CPCs Detected					
Pesticides/PCBs (ug/kg)					
No Human Health CPCs Detected					
Inorganics (mg/kg)				-	
Arsenic	2	0.37	5E-6		
Beryllium	0.23	0.15	2E-6		
Total Cancer Risk			7E-6	<u> </u>	
Total Noncancer Risk					

¹ The analytes listed exceeded one of the following criteria: a cancer risk of 10⁻⁶ or an adjusted Hazard Quotient of 0.1 based on the February 9, 1995 USEPA Region III Risk Based Concentration (RBC); proposed soil screening levels (presented in document USEPA 9355.4-14FS, dated December 1994); value established by Florida Department of Environmental Protection in their memorandum for Cleanup Goals for Military Sites, dated April 5, 1995.

Notes:

ug/kg = microgram per kilogram.

mg/kg = milligram per kilogram.

² The residential soil concentration listed represents a cancer risk of 10⁻⁶. The value is from the USEPA Region III RBC Tables dated February 9, 1995. For most analytes, the RBC table assumes a single exposure pathway. For most analytes, the RBC value is based on an ingestion route of exposure.

³ The cancer risk is an estimated value based on the assumptions used in the RBC tables.

⁴ The residential soil concentration for noncancer listed is based on a Hazard Quotient of 1. The value is from the USEPA Region III Risk Based Concentration Tables dated February 9, 1995.

⁵ The total noncancer risk is an estimated value based on the assumptions used in the RBC tables. The noncancer risks are assumed to be cumulative, even though different chemicals may effect different organs.

## Table C-3 Estimated Human Health Risk Surface Soil Contamination Associated with SWMU 56

Group I and II RFA/SV Report U.S. Naval Station Mayport, Florida

Analyte ¹	Maximum Detected Concentration	Residential Cancer RBC ²	Residential Cancer Risk ³	Residential Noncancer RBC ⁴	Residential Noncancer Risk ⁵
Volatile Organic Compounds (µg/kg)					
No Human Health CPCs Detected					
Semivolatile Organic Compounds ((µg/kg)					
No Human Health CPCs Detected				 	
Pesticides/PCBs (µg/kg)					
No Human Health CPCs Detected				,	
Inorganics (mg/kg)				1	
Arsenic	1.2	0.37	3E-6	1	
Beryllium	0.19	0.15	1E-6	1	
Cadmium	4.3			39	0.1
Chromium	52.3			390	0.1
Total Cancer Risk		1	4E-6		
Total Noncancer Risk					0.2

¹ The analytes listed exceeded one of the following criteria: a cancer risk of 10⁻⁶ or an adjusted Hazard Quotient of 0.1 based on the February 9, 1995 USEPA Region III Risk Based Concentration (RBC); proposed soil screening levels (presented in document USEPA 9355.4-14FS, dated December 1994); value established by Florida Department of Environmental Protection in their memorandum for Cleanup Goals for Military Sites, dated April 5, 1995.

Notes:

ug/kg = microgram per kilogram.

mg/kg = milligram per kilogram.

² The residential soil concentration listed represents a cancer risk of 10⁻⁶. The value is from the USEPA Region III RBC Tables dated February 9, 1995. For most analytes, the RBC table assumes a single exposure pathway. For most analytes, the RBC value is based on an ingestion route of exposure.

³ The cancer risk is an estimated value based on the assumptions used in the RBC tables.

⁴ The residential soil concentration for noncancer listed is based on a Hazard Quotient of 1. The value is from the USEPA Region III Risk Based Concentration Tables dated February 9, 1995.

⁵ The total noncancer risk is an estimated value based on the assumptions used in the RBC tables. The noncancer risks are assumed to be cumulative, even though different chemicals may effect different organs.

## Table C-4 Estimated Human Health Risk Surface Soil Contamination Associated with SWMU 19

Group I and II RFA/SV Report U.S. Naval Station Mayport, Florida

	May port, 1				
Analyte '	Maximum Detected Concentration	Residential Cancer RBC ²	Residential Cancer Risk ³	Residential Noncancer RBC ⁴	Residential Noncancer Risk ⁵
Volatile Organic Compounds (ug/kg)					
No Human Health CPCs Detected					
Semivolatile Organic Compounds (ug/kg)					
No Human Health CPCs Detected					
Pesticides/PCBs (ug/kg)					
No Human Health CPCs Detected					
Inorganics (mg/kg)					
Arsenic	1.2	0.37	3E-6		
Beryllium	0.26	0.15	2E-6	<u> </u>	
Total Cancer Risk			5E-6		
Total Noncancer Risk				<u></u>	

The analytes listed exceeded one of the following criteria: a cancer risk of 10⁻⁶ or an adjusted Hazard Quotient of 0.1 based on the February 9, 1995 USEPA Region III Risk Based Concentration (RBC); proposed soil screening levels (presented in document USEPA 9355.4-14FS, dated December 1994); value established by Florida Department of Environmental Protection in their memorandum for Cleanup Goals for Military Sites, dated April 5, 1995.

Notes:

ug/kg = microgram per kilogram mg/kg = milligram per kilogram

² The residential soil concentration listed represents a cancer risk of 10⁻⁸. The value is from the USEPA Region III RBC Tables dated February 9, 1995. For most analytes, the RBC table assumes a single exposure pathway. For most analytes, the RBC value is based on an ingestion route of exposure.

³ The cancer risk is an estimated value based on the assumptions used in the RBC tables.

⁴ The residential soil concentration for noncancer listed is based on a Hazard Quotient of 1. The value is from the USEPA Region III Risk Based Concentration Tables dated February 9, 1995.

⁵ The total noncancer risk is an estimated value based on the assumptions used in the RBC tables. The noncancer risks are assumed to be cumulative, even though different chemicals may effect different organs.

## Table C-5 Estimated Human Health Risk Surface Soil Contamination Associated with SWMU 28

Group I and II RFA/SV Report U.S. Naval Station Mayport Mayport, Florida

Analyte ¹	Maximum Detected Concentration	Residential Cancer RBC ²	Residential Cencer Risk ³	Residential Noncencer RBC ⁴	Residential Noncancer Risk ⁵
Volatile Organic Compounds (ug/kg)					
4-Chloro-3-methylphenol	55	NA		NA	
Semivolatile Organic Compounds (ug/kg)					
No Human Health CPCs Detected					
Pesticides/PCBs (ug/kg)					
No Human Health CPCs Detected					
Inorganics (mg/kg)					
Arsenic	3.2	0.37	9E-9		
Beryllium	0.2	0.15	1E-6		
Total Cancer Risk			1E-6	<u> </u>	
Total Noncancer Risk				<u> </u>	

¹ The analytes listed exceeded one of the following criteria: a cancer risk of 10⁻⁶ or an adjusted Hazard Quotient of 0.1 based on the February 9, 1995 USEPA Region III Risk Based Concentration (RBC); proposed soil screening levels (presented in document USEPA 9355.4-14FS, dated December 1994); value established by Florida Department of Environmental Protection in their memorandum for Cleanup Goals for Military Sites, dated April 5, 1995.

Notes:

ug/kg = microgram per kilogram mg/kg = milligram per kilogram

² The residential soil concentration listed represents a cancer risk of 10⁻⁶. The value is from the USEPA Region III RBC Tables dated February 9, 1995. For most analytes, the RBC table assumes a single exposure pathway. For most analytes, the RBC value is based on an ingestion route of exposure.

³ The cancer risk is an estimated value based on the assumptions used in the RBC tables.

⁴ The residential soil concentration for noncancer listed is based on a Hazard Quotient of 1. The value is from the USEPA Region III Risk Based Concentration Tables dated February 9, 1995.

⁵ The total noncancer risk is an estimated value based on the assumptions used in the RBC tables. The noncancer risks are assumed to be cumulative, even though different chemicals may effect different organs.

## Table C-6 Estimated Human Health Risk Subsurface Soil Contamination Associated with SWMU 28

Group I and II RFA/SV Report U.S. Naval Station Mayport Mayport, Florida

Analyte ¹	Maximum Detected Concentration	Residential Cancer RBC ²	Residential Cencer Risk ³	Residential Noncencer RBC ⁴	Residential Noncancer Risk ⁶
Volatile Organic Compounds (ug/kg)					
No Human Health CPCs Detected			'		
Semivolatile Organic Compounds (ug/kg)					
Benzo (a) anthracene	210	880	2E-7	l	
Benzo (b) fluoranthene	310	880	4E-7		
Chrysene	270	88,000	3E-9	1	
Dibenzo (a, h) anthracene	180	. 88	2E-6		
Indeno (1,2,3-cd)pyrene	290	880	3E-7	]	
Pesticides/PCBs (ug/kg)					
No Human Health CPCs Detected				ļ	
Inorganics (mg/kg)					
Arsenic	8.3	0.37	2E-5	Ì	
Beryllium	1.3	0.15	9E-6	<u> </u>	
Total Cancer Risk			3E-5	<u> </u>	
Total Noncancer Risk		1		<u>l</u>	<del></del>

The analytes listed exceeded one of the following criteria: a cancer risk of 10⁻⁶ or an adjusted Hazard Quotient of 0.1 based on February 9, 1995 USEPA Region III Risk Based Concentration (RBC); proposed soil screening levels (presented in document USEPA 9355-14FS, dated December 1994); value established by Florida Department of Environmental Protection in their memorandum for Cleanup Goals for Military Sites, dated April 5, 1995.

Notes:

ug/kg = microgram per kilogram. mg/kg = milligram per kilogram.

² The residential soil concentration listed represents a cancer risk of 10⁻⁶. The value is from the USEPA Region III RBC Tables dated February 9, 1995. For most analytes, the RBC table assumes a single exposure pathway. For most analytes, the RBC value is based on an ingestion route of exposure.

³ The cancer risk is an estimated value based on the assumptions used in the RBC tables.

⁴ The residential soil concentration for noncancer listed is based on a Hazard Quotient of 1. The value is from the USEPA Region III Risk Based Concentration Tables dated February 9, 1995.

⁵ The total noncancer risk is an estimated value based on the assumptions used in the RBC tables. The noncancer risks are assumed to be cumulative, even though different chemicals may effect different organs.

## Table C-7 Estimated Human Health Risk Unfiltered Groundwater Associated with SWMU 28

Group I and II RFA/SV Report U.S. Naval Station Mayport, Florida

Analyte ¹	Maximum Detected Concentration	Residential Cancer RBC ²	Residential Cencer Risk ³	Residential Noncencer RBC ⁴	Residential Noncancer Risk ⁵
Volatile Organic Compounds $(\mu g/I)$					
No Human Health CPCs Detected					
Semivolatile Organic Compounds $(\mu g/\ell)$		l 			
No Human Health CPCs Detected					
Pesticides/PCBs (µg/l)				}	
No Human Health CPCs Detected					
Inorganies (µg/l)					
Thallium ⁶	1.5			2.9	0.5
	<u> </u>	<u> </u>			<del>.</del>
Total Cancer Risk				<del> </del>	<u>.</u>
Total Noncancer Risk					0.5

¹ The analytes listed exceeded either a cancer risk of 10-6 or an adjusted Hazard Quotient of 0.1 based on the February 9, 1995 USEPA Region III Risk Based Concentration (RBC)or a screening value as listed in the Florida Department of Environmental Protection "Groundwater Guidance Concentrations," dated April 5, 1995.

Notes:

 $\mu g/\ell = micrograms per liter.$ 

² The groundwater concentration listed represents a cancer risk of 10⁻⁶ based on a 30 year lifetime aggregate exposure. The value is from the USEPA Region III RBC Tables dated February 9, 1995. For most analytes, the RBC table assumes a single exposure pathway. For most analytes, the RBC value is based on an ingestion route of exposure.

³ The cancer risk is an estimated value based on the assumptions used in the RBC tables.

⁴ The groundwater concentration for noncancer listed is based on a Hazard Quotient of 1. The value is from the USEPA Region III Risk Based Concentration Tables dated February 9, 1995.

⁵ The total noncancer risk is an estimated value based on the assumptions used in the RBC tables. The noncancer risks are assumed to be cumulative, even though different chemicals may effect different organs.

⁶ The value is based on thallium as thallium sulfate.

## Table C-8 Estimated Human Health Risk Surface Soil Associated with SWMU 48

Group I and II RFA/SV Report U.S. Naval Station Mayport, Florida

Analyte ¹	Maximum Detected Concentration	Residential Cancer RBC ²	Residential Cancer Risk ³	Residential Noncancer RBC*	Residential Noncancer Risk ⁶
Volatile Organic Compounds (µg/kg)					
No Human Health CPCs Detected					
Semivolatile Organic Compounds (µg/kg)				,	
No Human Health CPCs Detected			·		
Pesticides/PCBs (µg/kg)					
No Human Health CPCs Detected					
Inorganics (mg/kg)					
Arsenic	0.7	0.37	2E-6		
Total Cancer Risk			2E-6	<u> </u>	
Total Noncancer Risk		<u> </u>			

¹ The analytes listed exceeded one of the following criteria: a cancer risk of 10⁻⁶ or an adjusted Hazard Quotient of 0.1 based on the February 9, 1995 USEPA Region III Risk Based Concentration (RBC); proposed soil screening levels (presented in document USEPA 9355.4-14FS, dated December 1994); value established by Florida Department of Environmental Protection in their memorandum for Cleanup Goals for Military Sites, dated April 5, 1995.

Notes:

ug/kg = microgram per kilogram.

mg/kg = milligram per kilogram.

² The residential soil concentration listed represents a cancer risk of 10°. The value is from the USEPA Region III RBC Tables dated February 9, 1995. For most analytes, the RBC table assumes a single exposure pathway. For most analytes, the RBC value is based on an ingestion route of exposure.

³ The cancer risk is an estimated value based on the assumptions used in the RBC tables.

⁴ The residential soil concentration for noncancer listed is based on a Hazard Quotient of 1. The value is from the USEPA Region III Risk Based Concentration Tables dated February 9, 1995.

⁵ The total noncancer risk is an estimated value based on the assumptions used in the RBC tables. The noncancer risks are assumed to be cumulative, even though different chemicals may effect different organs.

## Table C-9 Estimated Human Health Risk Subsurface Soil Contamination Associated with SWMU 48

Group I and II RFA/SV Report U.S. Naval Station Mayport, Florida

Residential

**Residential** 

Analyte,	Maximum Detected Concentration	Residential Cancer RBC ²	Cancer Risk ³	Noncancer RBC	Noncancer Risk ⁵	
Volatile Organic Compounds (µg/kg)						*p216X
No Human Health CPCs Detected		ļ				1 1
Semivolatile Organic Compounds (µg/kg)		1	·			
No Human Health CPCs Detected	,					
Pesticides/PCBs (µg/kg)						
No Human Health CPCs Detected						
Inorganics (mg/kg)						
Arsenic	2.5	0.37	7E-6			
Total Cancer Risk			7E-6		-	_
Total Noncancer Risk			_			_

¹ The analytes listed exceeded one of the following criteria: a cancer risk of 10⁻⁶ or an adjusted Hazard Quotient of 0.1 based on the February 9, 1995 USEPA Region III Risk Based Concentration (RBC); proposed soil screening levels (presented in document USEPA 9355.4-14FS, dated December 1994); value established by Florida Department of Environmental Protection in their memorandum for Cleanup Goals for Military Sites, dated April 5, 1995.

Notes:

ug/kg = microgram per kilogram. mg/kg = milligram per kilogram.

² The residential soil concentration listed represents a cancer risk of 10°. The value is from the USEPA Region III RBC Tables dated February 9, 1995. For most analytes, the RBC table assumes a single exposure pathway. For most analytes, the RBC value is based on an ingestion route of exposure.

³ The cancer risk is an estimated value based on the assumptions used in the RBC tables.

⁴ The residential soil concentration for noncancer listed is based on a Hazard Quotient of 1. The value is from the USEPA Region III Risk Based Concentration Tables dated February 9, 1995.

⁵ The total noncancer risk is an estimated value based on the assumptions used in the RBC tables. The noncancer risks are assumed to be cumulative, even though different chemicals may effect different organs.

### **APPENDIX D**

AFFF MATERIAL SAFETY DATA SHEETS



HSZ MSDS 2247

Page 1 of <u>3</u>

### MATERIAL SAFETY DATA SHEET

		ANSULITE 6% AFFF	(AFC-3)	<u>-</u>
		Quick Identifier	· (In Plant Commo	on Name)
MANUFACTURER'S	Ansul Fire Protection	Emergency		
IAME	Wormald U.S., Inc.	Telephone		5-7411
repared By		Date Prep		
repared by	Safety and Health Depa	artment	November 15, 19	<del>3</del> 85
			:============	:======
ECTION 1 - IDE	NTITY			
			=======================================	=======
Common Name: (U	sed on label		CAS No.	
Trade Name and	Synonyms): Ansulite 65	% AFFF (AFC-3)	<u> </u>	
Chemical		Chen	nical	
	/A This is a mixture.	Fami	ily: Mixture	•
ormula				
	1/A			
<del></del>		-		-
	************		=======================================	=======
SECTION 2 - INC	REDIENTS			
====================================			-======================================	=======
Part A - HAZARD	OUS INGREDIENTS			
Principal Hazar	dous Component(s)	· · · · · · · · · · · · · · · · · · ·	ACGIH Acute T	-
chemical and o	common name(s)) %	CAS No.	TLV Da	
Diethylene Glyc	col Monobutyl Ether l	.7 112-34-5 No	one Dermal LD50	
(Butyl Carbi	itol)			4120 mg/
(500)1 00151			Oral LD50	(rat)
	1.1		6	5560 mg/kg
Part B - OTHER	INGREDIENTS			
Other Component				oxicity
(chemical and d	rommon name(s) %	CAS No	Da	ata
Proprietary mix	xture of hydrocarbon		<del>-</del>	
surfactants, f	luorosurfactants and			
inorganic salt	s not otherwise			
specified, and	water.			
<u> </u>				
			:======================================	========
SECTION 3 - PH	YSICAL AND CHEMICAL CH	ARACTERISTICS (Fir	e and Explosion	Data) ======
Boiling	Specific Gravity	Vapo	or Pressure	
Point: 97 °C	Specific Gravity (H20=1): 1	.02 (mm	Hg): N. D.	
<u></u>	(1120-17:	<u> </u>	<del></del>	
Percent Volati	le Vapor Dens:	ity <u>Solubil</u>		
by Volume (%):	$\frac{1e}{Approx.} 94 \frac{\text{Vapor Dens:}}{(Air = 1)}$	in wate	<u>er:</u> 100%	
			n	_
Evaporation Ra	te		Reactivity i	
(Butyl Acetate	= 1): 0.46	)	<u>Water: Unre</u>	active
<b>y</b>	•			
Appearance and	<b>J</b>			
Odor: Clear s	traw colored liquid, m	ild sweet odor.		
	•			

ANSULITE 6% AFFF (AFC-3) SECTION 3 PHYSICAL AND CHEMICAL CHARACTERISTICS (cont.)

Flammable Limits in None to Flash Air % by Volume: N/A boiling Point:

Extinguisher Media: N/A

Auto-Ignition Temperature: N/A

Special Fire Fighting

Procedures: N/A THIS IS AN EXTINGUISHING AGENT.

Unusual Fire and

Explosion Hazards: None.

SECTION 4 - PHYSICAL HAZARDS

Stability Unstable

[ ] Conditions

Stable

[X] to Avoid: N/A

Incompatibility

(Materials to Avoid): Reactive metals, electrically energized equipment, any

materials reactive with water.

Hazardous Decomposition

Products:

None known.

Hazardous

May Occur [ ] Conditions

Polymerization

Will Not Occur [X] to Avoid: N/A

SECTION 5 - HEALTH HAZARDS

THRESHOLD_LIMIT_VALUE: None established by ACGIH or OSHA.

Routes of Entry

Eye Contact:

May cause mild transient irritation.

Skin Contact:

May cause mild transient irritation.

Inhalation:

Inhalation is not anticipated to be a problem.

Ingestion:

Irritating to mucous membranes. Large oral doses could

produce narcosis.

Signs and Symptoms

Irritation of the eyes, skin and mucous membranes. Acute Overexposure:

Chronic

Overexposure:

Delayed kidney injury, possible liver damage.

Medical Conditions Generally

Aggravated by Exposure: Diseases of the kidney and liver.

ANSULITE 6% AFFF (AFC-3) SECTION 5 HEALTH HAZARDS (cont.)

Chemical Listed ás Carcinogen

National

Toxicology Yes [ ] No [X] Program

I.A.R.C. Monographs Yes[ ] No[X] OSHA Yes [ ]

or Potential 

SECTION 6 - EMERGENCY AND FIRST AID PROCEDURES

Eye Contact:

Flush with large amounts of water; if irritation persists,

seek Medical attention.

Skin Contact:

Wash with soap and water; if irritation persists, seek

Medical attention.

Inhalation:

Remove victim to fresh air. Seek Medical attention if

discomfort continues.

Ingestion:

If patient is conscious, give large amounts of water and

induce vomiting. Seek Medical help.

SECTION 7 - SPECIAL PROTECTION INFORMATION

Respiratory Protection

(Specify Type): Not normally necessary.

Ventilation

Local . Exhaust: Mechanical

Recommended. (General):

Protective

Eye Protection: Chemical goggles recommended.

Gloves: N/A

Other Protective Clothing

or Equipment: Eye wash and safety showers are good safety practice.

SECTION 8 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions To Be Taken In Handling

and Storage:

Store in original container. Note incompatibility

information in Section 4.

Other Precautions:

Do not mix agents. Avoid skin and eye contact. Avoid

ingestion.

Steps to be Taken in Case Material is

Released or Spilled:

Rinse floor thoroughly with water as material is slippery. Prevent material from entering sewers or

waterways to avoid nuisance foaming.

Waste Disposal

Methods:

Dispose of in compliance with all local, state, and

federal regulations.



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900 Box 33331

FILM FORMING FOAM (AFFF)

St. Paul, MN 55133-3336 ISPOSAL RECOMMENDATIONS AND HAZARD EVALUATION
612/778 4736

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### CONCLUSIONS:

Light Water Brand AFFF and ATC wastes are treatable in a wastewater treatment system if disposed of according to 3M recommendations. These products have low toxicity to the microorganisms in wastewater treatment systems even at concentrations much higher than those recommended by 3M. Foaming problems may develop, however, particularly when recommended discharge concentrations are exceeded.

Fluorochemical thermal decomposition products do not present a health hazard during fire fighting nor do they affect the treatability of aquecus fire fighting wastes. The major reasons for this are that during usage, the concentration of fluorochemicals in Light Water AFFF solutions is low and little fluorochemical is burned.

DISPOSAL RECOMMENDATIONS FOR AFFF (AQUEOUS FILM FORMING FOAM) AND ATC (ALCOHOL TYPE CONCENTRATE) WASTES:

3M recommends handling wastes resulting from the use of Light Water AFFF products by pretreatment in an oil/water separator. The oil fraction should be incinerated in a facility designed to accept such wastes. The aqueous fraction should be metered to a wastewater treatment system at a rate sufficiently low so that the concentrations reaching the aeration basin of the wastewater treatment system will not cause excessive foaming. Appropriate discharge rates will be determined by individual circumstances and should follow applicable regulations.

When pretreatment by oil/water separation is not possible, 3M recommends metering wastes to a wastewater treatment system. Since regulations vary, consult applicable regulations or authorities before disposal. In addition, treatment plant operators should be contacted before discharge to determine the capacity of the treatment system and sewage flow rates into the system so that discharge rates can be estimated.

For most AFFF or ATC products used at 6%, 3M recommends adjusting the discharge rate so that the product concentration in the aeration basin of the wastewater treatment system will be less than 100 mg per liter of sewage. For most products used at 3%, 3M recommends a maximum

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3M LIGHT WATER BRAND AQUEOUS 900 Bush Avenue FILM FORMING FOAM (AFFF) PO Box 33331 St Paul MN 55133-333 DISPOSAL RECOMMENDATIONS AND HAZARD EVALUATION 612/778 4736 (CON'T).

product concentration of 50 mg/L in the aeration basin. Products used at 3% require greater dilution than products used at 6% because the 3% concentrates have higher surfactant concentrations than the 6% concentrates. Product Environmental Data Sheets for products with higher surfactant concentrations may recommend somewhat greater dilution.

In some situations, metered discharge of wastes to a wastewater treatment system is impractical because the small size of the treatment system limits the discharge rate to such an extent that too much time would be required for disposal. 3M recommends two disposal alternatives in these situations: (1) transporting collected waste materials by tank trucks for metered discharge into a larger waste treatment facility, or (2) discharging the waste at a somewhat higher rate with appropriate concentrations of antifoaming agent added to the waste stream to control foaming.

Experiments conducted in the 3M Environmental Laboratory have determined that several antifoaming products are effective at controlling excessive foaming in activated sluge/AFFF mixtures. effectiveness of antifoaming agents, however, will be determined by the specific conditions in the aeration basin in individual wastewater treatment systems.

While this is not an endorsement, the following nine products were found to be the most effective of thirty-one antifoam products tested using activated sludge/AFFF mixtures in laboratory tests:

> GE Silicones 1-800-332-3390

Antifoam Emulsion AF72 Antifoam Emulsion AF93 Antifoam Emulsion AF9020

Henkel 1-800-922-0605 Defoamer WB-209 FoammasterTM DS

Union Carbide 1-800-523-5862 SAG 2001 Organosilicone Emulsion

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900 Bush Avenue 3M LIGHT WATER BRAND AQUEOUS
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Wacker Silicones 1-800-248-0063 Antifoam Agent SE-36 Antifoam Agent SWS-214 Antifoam Emulsion SRE

Of these nine products, the most cost-effective were Henkel WB-209, GE Silicones AF9020, Henkel FoammasterTM DS, and Wacker Silicones SRE. The cost analysis used in that study was based on antifoam prices obtained in July, 1992. Price and transport charges may vary which could cause other products to be more cost-effective in some locations.

The antifoam concentration required to limit foaming in laboratory tests on FC-203CF solutions of various concentrations are tabulated below. The products are listed in the table in order of most to least cost-effective. The antifoam concentrations given in the table are intended to serve as estimates since the actual antifoam concentration required to suppress foaming will be determined by the specific conditions in the aeration basin. Where no data are given in the table, the antifoam agent is not recommended for suppressing foam at or above that AFFF concentration.

The antifoam concentrations in the table were obtained in laboratory tests using 3M FC-203CF, but they are the approximate antifoam concentrations required for other 3M AFFF and ATC products used at 3%. For 3M AFFF products used at 6% in water, the antifoam concentrations should be approximately correct for twice the AFFF concentrations given at the top of each column. This is, the antifoam concentrations would be approximately correct for 6% AFFF concentrates at 200, 600, 1000, 1200, 1400, 1600, 1800, and 2200 mg/L in the aeration basin.

The AFFF and antifoam concentrations given in the preceding paragraph and in the table below are for foam control only. Other factors must be considered in selecting rates of discharge to a sewer. 3M recommends a case-by-case determination of the maximum concentrations of AFFF and antifoam to be discharged to a treatment system and subsequently to an aquatic environment. The maximum concentration will depend on a variety of factors, including the conditions in the individual wastewater treatment system and in the receiving watercourse, as well as the dilution factor of the treated wastewater in the receiving watercourse. These factors should be evaluated in

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3M LIGHT WATER BRAND AQUEOUS FILM FORMING FOAM (AFFF)

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each situation to ensure that neither the AFFF nor the antifoam will cause harm. Product Environmental Data Sheets on the particular 3M AFFF product(s) will help in this evaluation.

	100	FC-20	3CF Cc 500	ncentr 600	ration 700	(mg/L) 800	* 900	1100
Henkel WB-209	20	100	190				, d es es-	
GE Silicones AF9020	20	100	190	270	430	500	740	1950
Henkel Foammaster TM DS	20	110	200	300	·430	500	690	1600
Wacker Silicones SRE	20	100	190	270	400	490		
Wacker Silicones SWS-214	40	170	430					
GE Silcones AF93	20	100	190	270	430	480	530	1600
GE Silicones AF72	20	100	190	270	430	480	600	1800
Wacker Silicones SE-36	30	140	310	470	580			
Union Carbide SAG 2001	50	220	600					

^{*} See text for precautions and for extrapolating these data to other 3M AFFF products.

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In situations where antifoam agents are used to control excessive foaming by 3M products used at 6% in water, 3M recommends adjusting the discharge rate so that the product concentration in the aeration basin of the wastewater treatment system will be less than 1,000 mg/L of sewage. When antifoam agents are used to control foaming by 3M products used at 3%, 3M recommends a maximum AFFF concentration of 500 These maximum concentrations are based on mg/L in the aeration basin. laboratory studies that have shown that 3M AFFF products at or below these concentrations are unlikely to cause toxicity in wastewater treatment systems. The AFFF and antifoam concentrations in the table that are greater than these maximum recommended concentrations are provided to assist customers in dealing with emergency foaming situations or where elevated concentrations are appropriate because of individual circumstances. In all cases, applicable local regulations and the antifoam Material Safety Data Sheet (MSDS) should be consulted before use.

At 3M's own wastewater treatment facilities, foaming caused by Light Water AFFF discharges has been controlled by spraying a dilution of Wacker Silicones Antifoam Emulsion SWS-214 over the aeration basin. This dilution is prepared by mixing one part of SWS-214 in twenty parts The antifoam dilution is sprayed over the aeration basin surface until the desired level of foam control is obtained. This procedure could be used as an alternative to adding the antifoam directly to the AFFF containing waste stream.

### REASONS FOR 3M DISPOSAL RECOMMENDATIONS:

The primary reason for recommending discharge to a sewer is that 3M AFFF wastes are treatable in a biological wastewater treatment system. Light Water AFFF usage wastes are approximately 99% water and therefore have very low concentrations of organic compounds. The dilute nature of the waste makes alternative disposal methods, such as incineration, carbon adsorption, ultrafiltration, or reverse osmosis, both difficult and costly. Moreover, the major components of 3M AFFF usage wastes are a biodegradable solvent, Butyl Carbitol (<1%), and a mixture of biodegradable and partially biodegradable surfactants (<0.3%).

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Chemicals are generally considered biodegradable when the ratio of their 20-day Biochemical Oxygen Demand (BOD20) to their Chemical Oxygen Demand (COD) is greater than 0.6. The BOD20/COD for Butyl Carbitol was found to be 0.85. There are several biodegradable surfactants in these products and their BOD20/COD ratios were found to lie between 0.74 and There are also surfactants in these products with BOD20/COD ratios less than 0.6. This includes the fluorochemical surfactants and some of the hydrocarbon surfactants. The hydrocarbon surfactants that do not meet this BOD20/COD criteria will likely fully biodegrade given Some fluorochemical surfactants may have both hydrocarbon and fluorochemical portions. The fluorochemical portions of these surfactants are not known to biodegrade, but the hydrocarbon portions are likely to be biodegraded to some degree in most wastewater treatment systems and, like the fully hydrocarbon surfactants, eventually completely biodegrade. Possible fates of the nondegradable materials in wastewater treatment systems include sorption onto the microbial solids or passage out of the system with the treated In any event, their concentration will be very low. Nonbiodegradable fluorochemical materials are used in AFFF products because they are required to make the products work. All effective AFFF products on the market today (and all fluoroprotein products as well) contain fluorochemical surfactants. Finally, laboratory tests on both the individual product components and the product concentrates have determined the low toxicity of these materials to activated sludge bacteria, so discharge to ordinary wastewater treatment systems is reasonable.

Laboratory studies have shown that foaming, not toxicity, is usually the cause of problems from improper disposal of AFFF wastes to wastewater treatment systems. In laboratory studies, wastewater containing FC-600 Light Water AFFF at 1,000 mg/L was treated successfully without toxicity. In that lab study, the foam was physically broken down and returned to the treatment system along with activated sludge solids that came out because of foaming. With these modifications to the normal treatment process, the quality of the treated effluent from the laboratory scale system was not adversely affected. Treatment at this concentration is not recommended, however, because of excessive foaming.

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3M LIGHT WATER BRAND AQUEOUS 31 FILM FORMING FOAM (AFFF) DISPOSAL RECOMMENDATIONS AND HAZARD EVALUATION

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Light Water AFFF wastes resulting from testing the operability of a fire fighting system, such as that installed in a hanger facility, normally don't contain much fuel cr oil. On the other hand, wastes from fire fighting training facilities where hydrocarbon fires are extinguished may contain suspended oil. If oil is present, it should be separated from the waste before discharging the waste to a sewer as described above. If oil is emulsified in the waste, it may be difficult to separate but many oils can biodegrade. Furthermore, emulsified oils are more likely to biodegrade in a wastewater treatment system than are nonemulsified oils.

3M recommends metered discharge of Light Water AFFF wastes to flowing sewers because discharge to an intermittently flowing sewer could cause waste to collect and to be flushed to aeration basins at higher than recommended concentrations. Uncontrolled sewer discharge rates also could result in foam backing out of sewer drains.

#### THERMAL DECOMPOSITION FROM LIGHT WATER AFFF USAGE:

Thermal decomposition products resulting from Light Water AFFF usage present an insignificant hazard. Considerable confusion was caused by a precautionary statement formerly used on Light Water AFFF Material Safety Data Sheets (MSDSs). That statement was frequently misinterpreted as meaning that thermal decomposition products from usage concentration levels could cause a health hazard. The precaution once simply stated: "Thermal decomposition may produce toxic materials, including HF." This statement has now been modified to include: "Decomposition of usage concentrations does not present a hazard."

The former MSDS precaution for Light Water AFFF products is still used on the MSDSs for other 3M products containing fluorochemicals. The statement is used because it is well known that most fluorochemical materials, including such commonly used items as polytetrafluoroethylene (PTFE) coated frying pans, utensils, etc., can liberate toxic fumes including HF or perfluorobutylenes under combustion or pyrolysis conditions. However, this will occur only if very high temperature conditions exist (>300C).

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Furthermore, formation of hazardous concentrations of thermal by-products is more likely in fluorocarbon containing products with high fluorine content (65 or 70%), but the fluorochemical content of 3M AFFF products is very low. For example, FC-206CF Light Water AFFF concentrate contains only about 1.1% fluorine, and when diluted to the usage concentration, it contains only about 0.06% fluorine. Thus, from a combustion or pyrolysis product hazard perspective, PTFE, which is widely known as a nontoxic, inert material, would be far more hazardous.

There are other reasons that make the production of hazardous concentrations of thermal degradation products during fire fighting with Light Water AFFF very unlikely. Most importantly, little of the fluorochemical would burn or thermally decompose. The reasons for this are that the product rapidly covers and extinguishes the fire, and the high percentage of water absorbs considerable heat, thereby cooling and limiting the decomposition of the dissolved fluorochemical.

The 3M Industrial Hygiene Department conducted a test to confirm the lack of hazard from fluorochemical combustion when Light Water AFFF is used in fire fighting. The test was designed to simulate a "worst case" situation by maximizing the chance of fluorochemical combustion. The test burned a 2-3 inch layer of FC-203CE Light Water AFFF foam in a 10 square foot pan of gascline inside a 20 by 20 foot wide and 15 foot high open topped concrete building. To cause the fluorochemical in the Light Water AFFF product to burn, the test operator had to stir vigorously the foam and gasoline, an atypical procedure. Stirring broke the foam barrier and allowed combustion that would normally have been extinguished by the foam. Even under this worst case situation, two HF measurements taken above and near this fire were only 0.23 and 0.16 parts per million (ppm). While not directly applicable to this situation, these measurements were below the Threshold Limit Value for HF of 3 ppm, a concentration judge not to present a health hazard for nearly all persons.

Thus, fluorochemical decomposition products from Light Water AFFF present an insignificant risk when compared to the many other hazardous decomposition products resulting from a fire. Light Water AFFF products certainly play a much more significant role in reducing the toxicity hazards of fire situations by rapidly cooling and extinguishing a fire and by covering and preventing the volatilization of other potentially toxic materials.

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#### 11. "Light Water" Brand Concentrates

#### A. Physical Properties

The selection of the proper "Light Water" Agent is important for optimum performance of any fire protection system. Typical physical properties of "Light Water" Concentrates are listed in Table II-1. 6% Concentrate is designed to be mixed at 6 parts concentrate with 94 parts water. 3% concentrates are designed to be mixed at 3 parts concentrate with 97 parts water. The 3% freeze-protected concentrate is protected to  $-15^\circ\text{F}$  ( $-26^\circ\text{C}$ ) with a mirrimum use temperature of  $0^\circ\text{F}$  ( $-18^\circ\text{C}$ ).

The Alcohol Type Concentrate (ATC) is designed to be mixed at 3 parts concentrate with 97 parts water when used on non-polar hydrocurbon flammables. For polar solvents or alcohols, ATC is designed to be mixed at 6 parts concentrate with 94 parts water.

Table 11-1.
Typical Concentrate Properties

	Naminal	9	necific Gr	avity		viscosity.	CS	Minimum	Freezis	PΗ
"Light Water" Concentrate	Uy: Concentration	77°F (25°C)	40"F (4 4"C)	-10° F (-23.5° C)	77°F (25°C)	40°F (4.4°C)	·10°F (-23.3°C)	Use Temp. fr (°C)	Point *F (*C)	77°F (25°C)
AFFF	6%	1.01	1.02	_	2	5	_	35 (1.7)	25 (-1)	В
AFFF	196	1.10	_	. <del>-</del>	12.2	31.0	-	35 (1.7)	20 (-5.7)	8
AFFF (Freeze Protected)	3%	1.C <del>-6</del>	1,06	1.03	8	16	90	0 (-18)	- 15 (-25)	8
AFFF	3%	1.04	1.05	_	4	9		35 (1,7)	25 (-1)	R
AFFF/ATC	3%/6%	1.02	_	-	2000	3220		35 (1.7)	28 (-2)	8

#### B. Storage and Stability

### 1. "Light Water" AFFF

"Light Water" Brand Concentrates may be stored in their shipping containers without change in their original physical or chemical characteristics. Freezing and thawing have no adverse effect on product performance, though slight stratification may result, in which case moderate agitation before use is advised. The non-freeze protected concentrates proportion satisfactorily in ordinary equipment between 35° and 120° F (2° and 49°C). Freeze protected concentrate, with a freeze point of -15° F, proportions satisfactorily in ordinary equipment between 0° and 120° F (-18° and 49°C).

Long-term thermal aging of the *concentrates* at 150°F (65°C) has shown no adverse effect in performance. Therefore, a lifetime of at least 20 years could be expected when stored in suitable containers. Storage of *premixes* is not generally recommended for periods beyond 5 years.

Storage of concentrates or premixes in unlined mild steel tanks is not recommended as a general practice. No serious *concentrate* poisoning from metals of construction has occurred. However, as with any other aqueous material, there is the possibility of rust and scale formation in mild steel tanks. Storage of *premixes* in contact with mild steel (and to some extent, aluminum) will result in eventual agent poisoning. Recommendations for materials of construction are given in Section V, "Materials of Construction." Contact your local 3M sales representative for advice on unusual storage conditions.

Post-it" brand fax transmittal	memo 7671 per pages . 5
" Scott Newman	From Thou Hold
Co.	Ca
Dept,	Phone #
Fox 4	Fez #

#### 2. "Light Water" ATC

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In storing and handling "Light Water" ATC, certain recommendations are necessary, When stored in accordance with these recommendations, "Light Water" ATC has good stability. Unlike the regular "Light Water" Brand Concentrates, there are some limitations to its shelf-life. Annual inspection of systems as prescribed in NFPA II is recommended. Additionally, storage and handling recommendations include the following:

- Storage in mild carbon steel tanks is not recommended.
- Long term handling with mild carbon steel pumps and piping is not recommended.
- Evaporation of the concentrate should be prevented through the use of pressure/vacuum vents on all storage vessels.
- ATC Premix Systems have shelf lives limited to two years.
- Contamination with other agents must be avoided.

#### C. Agent Testing

Simple test procedures to determine quality of stored concentrate and premix solutions are given in Tables II-2, II-3 and II-4. These tests evaluate solution strength, foam quality and film quality and should be run about once a year on any stored "Light Water" AFFF. Failure of the stored agent to meet the requirements of any one of these tests could be reason for adjustment or replacement. Consult your 3M Fire Protection Systems representative for further action if this occurs.

1. Determination of Solution Strength

"Light Water" 6% Concentrate is designed for use at 6% in water, but performs satisfactorily at solution strengths from 5 to 7%. To assure operation near the nominal 6% level, construction of a refractive index versus percent concentration curve is recommended (see Table II-3 and II-4). This procedure, involving small amounts of solution and little time is particularly useful for checking out proportioning equipment. A similar procedure can be used for "Light Water" 3% Concentrate or "Light Water" ATC.

Determination of Agent Foam Quality

A simple field test to determine foam quality is given in Table II-2.

Table II-2
Foam Test for Determining "Light Water" Agent Quality

The procedure developed for field testing of premixes consists of the following:

- a. With a 10 ml, pipet or 10 ml, syringe add precisely 10 ml, of premix to a 100 ml, graduate cylinder. (Preferred type has ground glass stopper.)
- b. Place stopper in the graduate, and shake hard and rapidly 25 times
- With a spatula push any foam clinging to sides of graduate down into the foam bulk.
- d. Read volume of top level of foam.
- e. If toam volume is less than 40 ml., the eyent should be replaced.

#### 3. Determination of Agent Film Quality

The film formation and sealability test procedure of MIL-F-24385B (paragraphs 3.3.1 and 4.7.6) should be used to evaluate film quality. Failure to pass this test indicates the agent should be replaced.

A simplified version of this test has been developed and is more convenient for field testing. The procedure is as follows:

- To a glass petri dish (60 mm, diameter) add cyclohexane or cigarette lighter fluid to give a depth of 1/8".
- Place dish on black surface and under a tamp if possible so as to aid in observing the frim spread.
- With a medicine dropper carefully place three drops of premix on fuel surface at center of dish.
- d. With aid of reflected light observe the spreading film.
- e. After one minute, pass a lighted probe over the surface of fuel. Be sure to have a smothering plate handy in case of ignition.
- f. If no film is observed or if ignition occurs, the agent should be replaced.

Note: "Light Water" Agent testing service is available through the Fire Protection System feet-Service Laboratory. Refer to your authorized distributor or sales representative for sampling instructions and Tech-Service forms.

#### Table II-3 The Determination of Concentration by Refractive Index

The American Optical 1 portable refractometers (Catalog Nos. 10419, 10440 and 10441) are useful instruments for determining the agent concentration of "Light Water" AFFF in both fresh and sea water solutions. The method is rapid and requires only a small amount of solution.

The operator first should familiarize himself with the instrument and its use. This is the best accomplished by reading the instruction manual and preparing test solutions of known concentrations. The use of this instrument is facilitated when accompanied by the following list of materials (field kit):

> 1 cc. Syringe 25 ml. Graduate Medicine Droppers Cleansing Tissues Graph — Refractionieter Reading vs. % Concentration (See Table H-4)

To prepare for field testing, it is necessary to construct a graph plotting the refractometer reading vs. concentration using the portable refractometer. The reference graph should include the plats for tresh and sea water solutions. A minimum of three points is necessary for each agent. This can tic accomplished by preparing two accurate test solutions as 4% and 8% (or 5% and 10%). The refractometer reading of these two solutions and of the water only provide the three points. When plotted on the graph paper, the reference line drawn through the points should be straight. It is suggested that the above procedure be repeated several times to assure familiarization and confidence in the instrument.

To insure accuracy in the field, it is advisable to prepare the two known solutions with the test agent and water at the site and determine their refractemeter readings. The solutions can be prepared using the materials listed in the above traveling field kit.

if the refractomater readings of these solutions fall on the plotted reference line, concentrations are read directly at the reference line intersect. If the readings differ, a new reference line should be drawn and used for determining the concentration of the proportioned solution.

Attuched to this instruction bulletin are sample graphs plotting retractometer readings and percent concentrations. Reference lines are included for "Light Water" Agent with both fresh and sea water solutions. These curves are illustrative only. It is necessary to construct actual curves in the field.

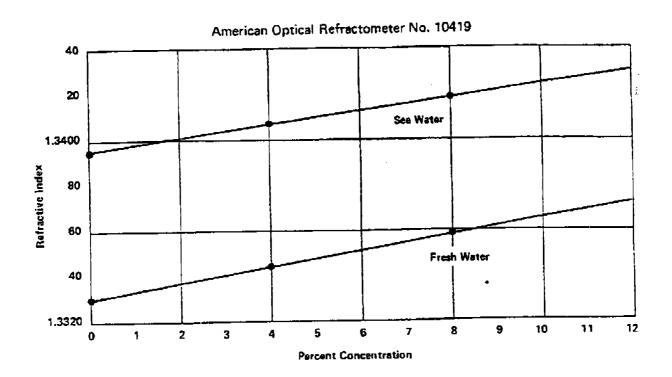
Refractometer No. 10419 is a precision instrument and has the accuracy of a laboratory bonch model. Catalog No. 10440, though not as precise an instrument, is accurate within 1/2% concentrate level and is very suitable for adjusting proportioning systems. Catalog No. 10441 is also suitable for adjusting proportioning systems, It is suggested that No. 10419 be used when greater accuracy is required.

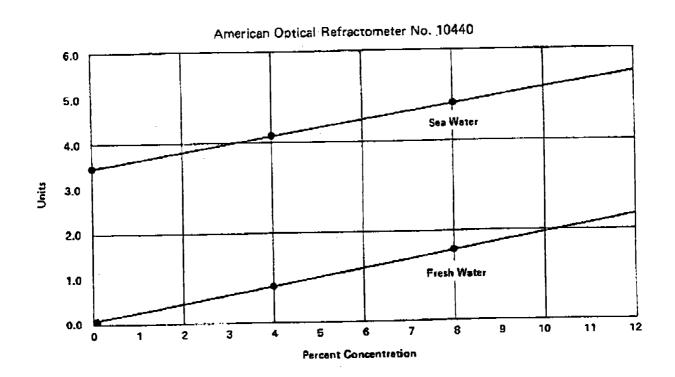
:721**G** 

Misco Prod. - Cleveland, Ot. 800 358-1100 DWR Scientific S.F. CA. 415-448-7150 WINN Oil G. Fullerton, Ca. 213-334-0231 Richmond M. 804-264-7506 GEN. Medical

LYKES PASCO Dadelity, 7/9 904-567-5211

TABLE II-4
Typical Refractometer Reading vs. Concentration "Light Water" AFFF Solutions - Sample Curves





#### D. Water Considerations

"Light Water" Concentrates are designed for use with fresh or sea water. No problem has been encountered using brackish water or water containing a high concentration of minerals or organics. However, it is not advisable to dilute Concentrate with water containing wetting agents or corrosion inhibitors. If this situation is difficult to avoid, contact your local 3M representative for a recommendation.

#### E. Compatibility With Other Class "B" Extinguishing Agents

Occasionally "Light Water" Agents must be applied to a fire simultaneously with protein or fluoroprotein foam. Tests have shown that "Light Water" Agent can be used with either in any sequence of operation. Their use in combination detracts from the efficiency of "Light Water" Agents, but enhances the performance of protein or fluoroprotein foams.

"Light Water" Concentrates should not be mixed with concentrates of other manufacturers.

"Light Water" Agent's compatibility with dry chemical agents has popularized twin unit systems. Both types of agents contribute superior knockdown; "Light Water" Agent secures against reflash while dry chemical suppresses three-dimensional fires.

#### F. Limitations of "Light Water" AFFF Use

Like all water-based foams, "Light Water" Agent is not suitable for fires involving "live" electrical equipment (Class "C") or fires of materials that react violently with water, such as socium metal (Class "D").

"Light Water" Agent is also not recommended for use on fires involving liquified gases, such as propane, as severe boiling and increased vapor release will occur due to the latent heat of the water draining from the foam. Recent test work shows some success with high expansion foams in retarding the vaporization rate of such liquified gas spills. "Light Water" Agent may also be used in high expansion devices to gain similar reduced vapor evolution rates.

Caution should be exercised in applying "Light Water" Agents to vessels containing hot oils, asphalts, etc., which are well above the normal boiling point of water after burning for an extended period of time. The water in the premix may cause violent frothing and even forceful expulsion of a port on of the contents.

"Light Water" AFFF is not intended for hazards involving polar solvents or alcohols in depth. The use of "Light Water" ATC is recommended for these hazards.



### G. Safety, Handling, and Environmental Impact

"Light Water" Brand Concentrates may be classified as practically non-toxic orally based on acute oral LD₅₀ values in rats. The concentrates have also been found to be essentially non-irritating to the skin of albino rabbits. Eye irritation of albino rabbits is limited to mild and conjunctival irritation. Eye "wash-out" with water immediately following contact is recommended and should arrest/reverse the irritation process.

3M is conducting an ongoing program to evaluate and assess the environmental impact of its newland existing products. Where possible, all "Light Water" Agents have been tested in accordance with the "Standard Methods for the Examination of Water and Wastewater," 13th Edition, 1971. Conclusions from these tests are:

- 1. "Light Water" Agents are biodegradable.
- "Light Water" Agents can be treated in biological treatment system.
- "Light Water" Agents exhibit low toxicity to aquatic organisms.

For example, oxygen uptake tests have shown that no microbial inhibition will occur at concentrations less than 1000 mg./l. for 6% concentrate (16,000 mg./l. for 6% solutions). A conventional activated sludge pilot plant was successfully operated using a feed source which consisted of a mixture of settled domestic sewage and "Light Water" Agent.

Acute toxicity data on various aquatic organisms show that the dilution of the applied solutions in firefighting situations should be sufficient to insure no adverse effect on aquatic life.

An evaluation of your specific situation should be based on the particular circumstances and factors involved and should include consultation with the appropriate pollution control agencies.

When environmental proporties of the "Light Water" Concentrates are needed, contact Fire Protection Systems, 5M.

## APPENDIX E

DREDGE MATERIAL DISPOSAL CORRESPONDENCE



### STAFF CIVIL ENGINEER DEPARTMENT NAVAL STATION

MAYPORT, FLORIDA 32228-0067

IN REPLY REFER TO:

N4A 7 Apr 95

From:

John Veal, Deputy Staff Civil Engineer

To:

Eunice Ford, CEASJ-DP-I

Subj: REMOVAL OF MATERIAL IN UPLAN. DISPOSAL AREAS AT NAVAL STATION

MAYPORT, FLORIDA

- 1. During our fonecon today you outlined two alternatives for overcoming potential regulatory issues regarding removal and disposal of material from the spoil areas. In the first alternative NAVSTA would take the responsibility for coordinating with the Environmental Protection Agency for necessary approvals. Under the second approach the Corps of Engineers would advise the Environmental Protection Agency of the Corps' plans to remove and dispose of the material, and then proceed absent specific objections from EPA. Under the second alternative the COE would initiate appropriate correspondence and otherwise work whatever issues might arise.
- 2. I have discussed these approaches with Mike Davenport and Cheryl itchell in our Environmental Division, and we agree that using the COE s our agent in coordinating with the EPA is the preferred alternative. Therefore, you are requested to move forward with removal and disposal of the spoil material after the EPA has been advised of the plan. you provide NAVSTA with information correspondence, and in general keep Cheryl Mitchell abreast of progress so that she may keep her partnering group current on the status of the dredge spoil areas.

3. You are requested to identify in-house costs required to proceed

John Veal

ct: Lcdr. Tomlinson Mike Davenport Cheryl Mitchell

Ford

Planning Division Environmental Branch

SUBJECT: Mayport Naval Station Dredged Material Disposal Areas

Joseph R. Franzmathes
Director, Waste Management Division
U.S. Environmental Protection Agency, Region IV
345 Courtland Street NE.
Atlanta, Georgia 30365

Dear Mr. Franzmathes:

The Engineering Division of the Staff Civil Engineer Department at the U.S. Naval Station, Mayport, Plorida, has requested the Jacksonville District, U.S. Army Corps of Engineers, to provide Architect/Engineer (A/E) design services for removal of dredged material from upland disposal areas D/A-N and D/A-O. Construction includes the removal of dredged material and separation of recyclable material for use in road asphalt mix, concrete, etc. and disposal of non-recyclable material in a landfill. The intention of this project is to provide capacity for future maintenance dredging of the Mayport basin.

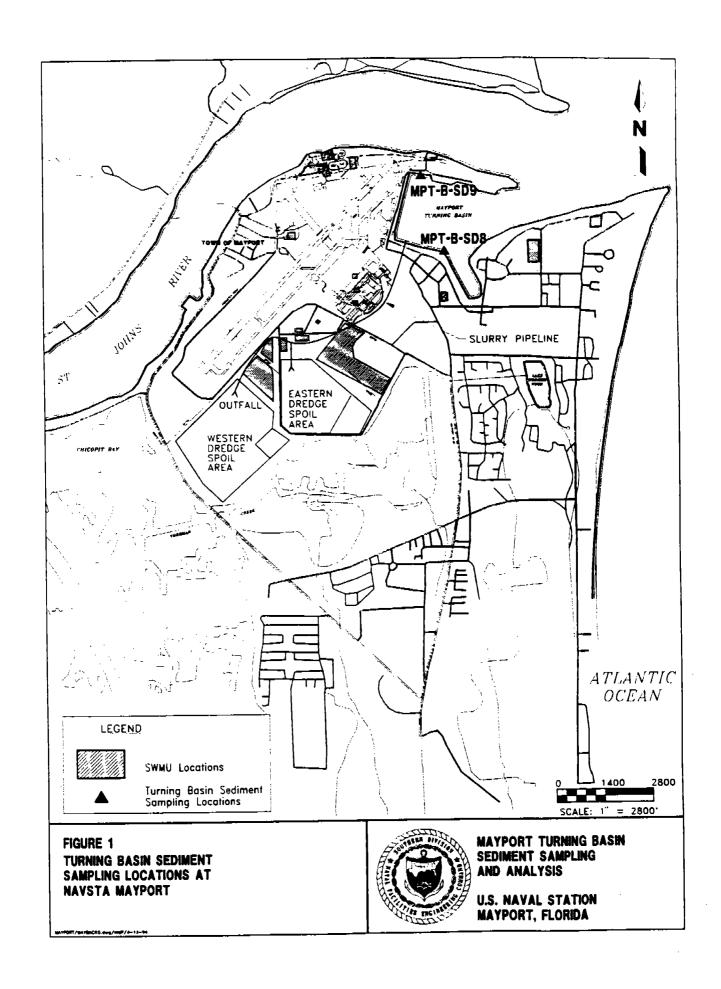
The project is scheduled to start at the end of calendar year 1995 or the beginning of 1996. The project will take approximately 1 year to complete.

Sincerely,

Richard E. Bonner, P.E. Deputy District Engineer for Project Management

bcc: CESAJ-DP-I

# APPENDIX F MAYPORT TURNING BASIN 1993 SAMPLING EVENT



## Table 1 Volatile Organic Analytes not Detected by TCLP Analysis in Sediment Samples Collected from the Mayport Turning Basin

Technical Memorandum Mayport Turning Basin Characterization Activities NAVSTA Mayport, Mayport, Florida

Sample M				Sediment	Sediment
Location/S	Sample No.:			MPT-BG-SD08	MPT-BG-SD09
Date Sam	pled:	<del>, , , , , , , , , , , , , , , , , , , </del>		2-Dec93	2-Dec93
CAS RN	Common Name	Regulatory Level	Laboratory detection Level	Conc.	Conc.
71-43-2	Benzene	0.05	0.25	< 0.25	< 0.25
78-93-3	2-Butanone	200.0	100.0	< 100.0	< 100.0
56-23-5	Carbon Tetrachloride	0.50	0.25	< 0.25	< 0.25
108-90-7	Chlorobenzene	100.0	50.0	< 50.0	< 50.0
67-66-3	Chloroform	6.0	3.0	< 3.0	< 3.0
107-06-2	1,2-Dichloroethane	0.50	0.25	< 0.25	< 0.25
75-35-4	1,1-Dichloroethene	0.70	0.35	< 0.35	< 0.35
127-18-4	Tetrachloroethene	0.70	0.35	< 0.35	< 0.35
79-01-6	Trichloroethene	0.50	0.25	< 0.25	< 0.25
75-01-4	Vinyl Chloride	0.20	0.10	< 0.10	< 0.10

CAS RN = chemical abstract service registry number.

## Table 2 Semivolatile Organic Analytes not Detected by TCLP Analysis in Sediment Samples Collected from the Mayport Turning Basin

Technical Memorandum
Mayport Turning Basin Characterization Activities
NAVSTA Mayport, Mayport, Florida

Sample Ma	etrix:			Sediment	Sediment
Location/S	Sample No.:		T.	MPT-BG-SD08	MPT-BG-SD09
Date Samp	oled:			2-Dec-93	2-Dec-93
CAS RN	Common Name	Regulatory Level	Laboratory detection Level	Cone.	Conc.
106-46-7	1, 4-Dichlorobenzene	7.5	3.75	< 3.75	< 3.75
121-14-2	2, 4-Dinitrotoluene	0.13	0.065	< 0.065	< 0.065
118-74-1	Hexachlorobenzene	0.13	0.065	< 0.065	< 0.065
87-68-3	Hexachlorobutadiene	0.5	0.25	< 0.25	< 0.25
67-72-1	Hexachloroethane	3.0	1.5	< 1.5	< 1.5
95-48-7	2-Methylphenol	200	100	< 100	< 100
108-39-4	3-Methylphenoi	200	100	< 100	<100
106-44-5	4-Methylphenol	200	100	< 100	< 100
98-95-3	Nitrobenzene	2.0	1.0	< 1.0	< 1.0
87-86-5	Pentachiorophenol	100	50	< 50	< 50
110-86-1	Pyridine	5.0	2.5	< 2.5	< 2.5
95-95-4	2, 4, 5-Trichlorophenol	400	200	< 200	< 200
88-06-2	2. 4, 6-Trichlorophenol	2.0	1.0	< 1.0	< 1.0

Notes: Concentrations are reported in milligrams per liter.

CAS RN = chemical abstract service registry number.

## Table 3 Pesticide and Herbicide Analytes not Detected by TCLP Analysis in Sediment Samples Collected from the Mayport Turning Basin

Technical Memorandum
Mayport Turning Basin Characterization Activities
NAVSTA Mayport, Mayport, Florida

Sample Ma	itrix:			Sediment	Sediment
Location/S	ample No.:			MPT-BG-SD08	MPT-BG-SD09
Date Samp	led:			2-Dec93	2-Dec93
CAS RN	Common Name	Regulatory Level	Laboratory detection Level	Conc.	Conc.
57-74-9	Chlordane	0.03	0.015	< 0.015	< 0.015
72-20-8	Endrin	0.020	0.010	< 0.010	< 0.010
58-89-9	Gamma-BHC (Lindane)	0.40	0.20	< 0.20	< 0.20
76 <del>-44-</del> 8	Heptachior	0.0080	0.0040	< 0.0040	< 0.0040
1024-57-3	Heptachlor Epoxide	0.0080	0.0040	< 0.0040	< 0.0040
72-43-5	P. P'Methoxychlor	10.0	5.0	< 5.0	< 5.0
8001-35-2	Toxaphene	0.5	0.25	< 0.25	< 0.25
94-75-7	2, <b>4-</b> D	10.0	5.0	< 5.0	< 5.0
93-76-5	2. 4, 5-TP (Silvex)	1.0	0.5	< 0.5	< 0.5

Notes: Concentrations are reported in milligrams per liter.

CAS RN = chemical abstract service registry number.

## Table 4 Inorganic Analytes not Detected by TCLP Analysis in Sediment Samples Collected from the Mayport Turning Basin

Technical Memorandum
Mayport Turning Basin Characterization Activities
NAVSTA Mayport, Mayport, Florida

Sample Mar	trix:			Sediment	Sediment
Location/Sa	emple No.:			MPT-BG-SD08	MPT-BG-SD09
Date Sample	led:			2-Dec-93	2-Dec-93
CAS RN	Common Name	Regulatory Lavel	Laboratory detection Level	Conc.	Conc.
7440-38-2	Arsenic	5.0	2.5	< 2.5	< 2.5
7440-39-3	Barium	100	50.0	< 50.0	< 50.0
7440-43-9	Cadmium	1.0	0.5	< 0.5	< 0.5
1333-82-0	Chromium	5.0	2.5	< 2.5	< 2.5
7439-92-1	Lead	5.0	2.5	< 2.5	< 2.5
7439-97-6	Mercury	0.2	0.1	< 0.1	< 0.1
7782-49-2	Selenium	1.0	0.5	< 0.5	< 0.5
7440-22-4	Silver	5.0	2.5	< 2.5	< 2.5

Notes: Concentrations are reported in milligrams per liter.

CAS RN = chemical abstract service registry number.

#### Table 5 Volatile Organic Analytes Detected in the **Mayport Turning Basin Sediment Samples**

Technical Memorandum Mayport Turning Basin Characterization Activities NAVSTA Mayport, Mayport, Florida

Sample D	elivery Group;		1	1	1	1
Sample M	latrix:		Sedi	ment		' Ment
Location/	Sample No::		MPT-B	G-SD08	MPT-8	
Date Sam	pled:		2-De	c93	2-De	
CAS RN	Common Name	Units	Conc.	Qual.	Conc.	Qual.
67-64-1	Acetone	<i>µ</i> g/kg	63	BJ	45	BJ
110-75-8	2-Chloroethylvinylether	µg/kg	14	J	~	-
<b>78-83-</b> 1	isobutyl Alcohol	<i>µ</i> g/kg	86	BJ	11	BJ.
75-09-2	Methylene Chloride	µg/kg	50	BJ	17	BJ

CAS RN = chemical abstract service registry number. Notes:

 $\mu$ g/kg = micrograms per kilogram.

Conc. = concentration.

- = concentration less than the contract Required Quantitation Limit (CRQL).

Qual. = qualifier.

J = estimated concentration.

B = analyte detected in a corresponding blank.

## Table * 6 Semivolatile Organic and Pesticide Analytes Detected in the Mayport Turning Basin Sediment Samples

## Technical Memorandum Mayport Turning Basin Characterization Activities NAVSTA Mayport, Mayport, Florida

		, , , , , , , , , , , , , , , , , , ,	-ypon, 1,011			
Sample Di	elivery Group:		13/3	16PS	13/31	16PS
Sample M	atrix:		Sedir	nent	Sedir	nent
Location/S	Sample No.:		MPT-B	3-SD08	MPT-BO	3-SD09
Date Samp	oled:		2-De	c <b>93</b>	2-De	c. <b>-9</b> 3
CAS RN	Common Name	Units	Conc.	Qual.	Conc.	Qual.
83-32-9	Acenaphthene	µg/kg	_	·	91	J
120-12-7	Anthracene	<i>µ</i> g/kg	170	J	440	J
56-55-3	Benzo(a)anthracene	µg/kg	350	J	3,000	
191-24-2	Benzo(g,h,i)perylene	µg/kg	-		1,000	J
205-99-2	Benzo (b) fluoranthene	<i>µ</i> g/kg	470	ЛX	5,400	x
207-08-9	Benzo(k)fluoranthene	<i>µ</i> g/kg	470	JX	5,400	x
50-32-8	Benzo(a)pyrene	<i>µ</i> g/kg	_		2,100	
218-01-9	Chrysene	<i>µ</i> g/kg	370	J	2,900	
53-70-3	Dibenz(a,h)anthracene	<i>µ</i> g/kg	-		290	J
206-44-0	Fluoranthene	µg/kg	660	J	7,300	
86-73-7	Fluorene	µg/kg	-		110	J
193-39-5	indeno(1,2,3-cd)pyrene	µg/kg	-		1,000	
85-01- <b>8</b>	Phenanthrene	µg/kg	_		3,100	
129-00-0	Pyrene	<i>µ</i> g/kg	770	J	6,100	
117-81-7	Bis (2-ethylhexyl)phthalate	µg/kg	470	E	200	ВЈ
84-74-2	Di-n-butylphthalate	µg/kg	160	J	160	J
106-46-7	1, 4-Dichlorobenzene	µg/kg ·	_		110	J
319-85-7	Beta - BHC	<i>µ</i> g/kg	5.6	Р	15	ρ
50-29-3	4, 4'-DDT	µg/kg	_		6.4	

Notes:

CAS RN = chemical abstract service registry number.

 $\mu$ g/kg = micrograms per kilogram.

Conc. = concentration.

- = concentration less than the contract Required Quantitation Limit (CRQL).

Qual. = qualifier.

J = estimated concentration.

B = analyte detected in a corresponding blank.

X = indistinguishable coeluting isomers.

P = > 25 percent difference for detected concentrations between two GC columns, lower value reported.

### Table 7 Inorganic Analytes Detected in the Mayport Turning Basin Sediment Samples

#### Technical Memorandum Mayport Turning Basin Characterization Activities NAVSTA Mayport, Mayport, Florida

ı	Delivery Group:		937	 366		
Sample N				ment		366
Location/	Sample No.:			G-SD08		ment
Date Sam	pled:		J	c93	į.	G-SD09
CAS RN	Common Name	Units	Conc.		2-00	c. <b>-93</b>
7440-38-2	Arsenic	mg/kg	26.8	Qual.	Conc.	Qual.
7429-90-5	Aluminum	mg/kg	12,500		5.1	
7440-39-3	Barium	mg/kg	19.9	J	3,120 157	
7440-70-2	Calcium	mg/kg	26,900	•	125,000	
7440-47-3	Chromium	mg/kg	34.3		356	
7440-48-4	Cobalt	mg/kg	-		1.4	J
7440-50-8	Copper	mg/kg	712		55.8	J
7439-89-6	Iron ,	mg/kg	17,000		5,810	
7493-92-1	Lead	mg/kg	15.3		99.1	
7439-95-4 7439-96-5	Magnesium	mg/kg	9,030		3,370	
440-02-0	Manganese	mg/kg	264	- 1	96.6	
440-02-0	Nickel	mg/kg	17.4	J	_	
782-49-2	Potassium	mg/kg	3,620		821	J
440-23-5	Selenium	mg/kg	7.6		~	
440-62-2	Sodium Vanadium	mg/kg	35,100		7.890	
140-66-6		mg/kg	34.2		8	J
	Zinc	mg/kg	171	[	995	

Notes: CAS RN = chemical abstract service registry number.

μg/kg = micrograms per kilogram.

Conc. = concentration.

- = concentration less than the contract Required Quantitation Limit (CRQL). Qual. = qualifier.

J = estimated concentration.

# APPENDIX G GROUNDWATER ELEVATION DATA

Table G-1 Appendix G, Potentiometric Surface Survey

\$2000								(1000) (1000)		XXXX		W	S)(S)(S)	(*COS)		3500000 35000000	Storens	stanti.				500000	*******	ener:	en en en en en en en en en en en en en e	2555000	3000000	A0000	e propose	200
LEVEL	/94	ELEV	(MSL)		5.05	4.69	2.21	3.41	3.06						4.79	2.94	3.93	6.01			5.34					2.02	1.60		3.29	
WATER LEVE	4/19/94	DEPTH	(TOC)		11.91	12.20	4.90	8.36	7.98						4.64	6.76	6.56	4.54			4.68					3.40	3.91		3.40	
LEVEL	94	ELEV	(MSL)		6.04		2.87	4.06	3.68						4.99	3.36	4.42	6.64			6.10					2.59	2.26		3.48	
WATER LEVE	3/14/94	DEPTH	(TOC)		10.92		4.24	7.71	7.36						4.44	6.34	6.07	3.91			3.92	:				2.83	3.25		3.21	
LEVEL	/94	ELEV	(MSL)		6.94		3.44	4.75	4.26						6.06	3.41	4.51	6.89			6.37					2.74	2.50			
WATER LEVE	2/14/94	DEPTH	(TOC)		10.02		3.67	7.02	6.78						3.37	6.29	5.98	3.66	2		3.65					2.68	3.01			
	7	ELEV	(MSL)	9.37	16.96	16.89	7.11	11.77	11.04	10,33	7.56	17.20	8.29	9.91	9.43	9.70	10.49	10.55	10.49	10,50	10.02	6.83	6.65	5.77	5.73	5.45	5.51	7.57	69.9	6.73
	>	NORTHING	STPLN	2200963.68	2202286.9	2202618.3	2203345.2	2202891.0	2202846.0	2199297.5	2199855.4	2199038.7	2199896.7	2200114.4	2199779.9	2197403.6	2197405.6	2200144.7	2200338.7	2200345.5	2200333.6	2200458.0	2200460.6	2198820.77	2198829.9	2198211.9	2198209.6	2200319.6	2200286.8	2200289.0
	×	EASTING	ST PLN	372958.91	372829.0	372520.3	372912.0	373338.7	372166.0	365498.7	368573.7	364604.9	365011.2	365958.5	365492.5	365934.4	365926.7	365838.5	366127.7	366127.4	366391.8	367585.3	367584.9	368639.90	368644.3	368319.8	368318.3	365692.6	365475.2	365475.4
			WELL/LOCATION	MAY-265-5	MPT-1-1	MPT-1-2	MPT-1-P1	MPT-1-P2	MPT-1-P3	MPT-2-1	MPT-2-2	MPT-2-3	MPT-2-4R	MPT-2-5	MPT-2-6	MPT-2-7D	MPT-2-7S	MPT-2-8	MPT-2-9D	MPT-2-9S	MPT-2-10	MPT-2-15-DR	MPT-2-15-SR	MPT-2-MW-111	MPT-2-MW-11S	MPT-2-MW-12D	MPT-2-MW-12S	MPT-2-MW-13S	MPT-2-MW-16D	MPT-2-MW-16S

Table G-1 Appendix G, Potentiometric Surface Survey

	<b>2000</b>	8 <u>7</u> 888														200,038 1			*****							88 80 		<b>X</b>	***		<b>3</b> %
LEVEL	/94	ELEV	(MSL)		4.35	3	D.4													2	E.										
WATER LEVE	4/19/94	DEPTH	(TOC)		77 6	5 6	3.72																								
EVEL	94	ELEV	(MSL)		1 95 7	3	4.52																								
WATER LEVE	3/14/94	DEPTH	(TOC)			\$.7	3.21																								
LEVEL	96	ELEV	(MSL)			4.61	4.69																								
WATER LEVE	2/14/94	DEPTH	COC			2,98	3.04																				·				
		고 1 글		7500		7.79	7.73	7.83	6.51	6.37	32.50	32.09	7.56	7.19	8.09	5.22	5.36	32.29	31.78	32.07	32.35	32.41	7.99	17,36	9.43	8.91	9.08	9.14		•	9.33
	>	NOPTHING F				2197412.0	2197409.6	2197417.06	220055.45	2200556.08	2200025.53	2199688.94	2200051,54	2199562.64	2199568.02	2199413.41	2199408.85	2199025.95	2198858.49	2198863.75	2198091.42	2198100.29	2197395.60	2198675.14	2199942.71	2200720.64	2199944.99	2199939.63	2200580.26	2200575.95	2201367.39
	>	A EACTINIC N				365773.2	365775.4	╄	386068.67	366069.80	366211.19	366630.67	367896.59	365528.11	365528.11	368953.87	368950 54	365636.75	367458.00	367452.88	367495.39	367500.15	366591.50	364986.80	364774.65	365514.38	364246.62	364241.07	364816.58	364813.13	365495.74
		<u> </u>		*****		MW-17D	WW-17S	MW - 171	-2-AMV-18!	-2-MM-18S	-2-MM-19S	MW-20S	MPT-9-MW-21S	MW - 221	MDT_2_MW_22S	SECTION STATE	AAA/_ 23i	MILET SERM - 24S	MW-25	MDT = 2-MW - 25S	MPT_2_MW_26!	-2-WW-26S	MW-27	MPT-2-MW-28S	-MW-29S	-MW-30S	-2-MW-311	11	-2-MW-32	MPT-2-MW-32S	MDT_9_MM-331
			,	WELL/LUCATION		MPT = 2 = MW = 17D	MPT-2-MW-17S	MPT-2-MW-17	MDT 2	MPT - 2	MPT-2-	MPT-2-MW	MPT _2_	MPT -2-MW -22	MDT_2_	MOTON	INC TAIN 2 I JIM	MF 1 FG	MPT = 2=MW = 25	MDT-9-	MPT-5-	MPT-2-	MPT-2-	MPT-2	MPT-2-MW	MPT-2-MW-	MPT-2-	MPT-2-	MPT-2-	MPT-2-	MPT-2-

Table G-1 Appendix G, Potentiometric Surface Survey

8000	(A)	(1777) (1777)	22 KG				80000					***			800 miles			e	<b>3850000</b>	·····	20.00 TO	*****		ordere	aruti	8481881	0.80	::::::::::::::::::::::::::::::::::::::	2000	Stock
EVEL	94	ELEV	(MSL)															8.83	8.04	3.65	-0.02	3.80	2.86	8.21	10.28	10.70				
WATER LEVE	4/19/94	DEPTH	(TOC)															23.10	24.70	3.50	5.12	4.15	3.49	23.97	21.74	21.15				
EVEL.	94	ELEV	(MSL)													5.15		11.28	200	2.27	2.04	4.33	3.06	11.06		16.28				
WATER LEVE	3/14/94	DEPTH	(TOC)													2.60		20.65		4.88	3.06	3.62	3.29	21.12		15.57				
****			***						****							0	*****	99	19	8	S.	53	2	23		8				
! LEVEL	4/94	ELEV	(MSL)													5.10		16.66	13.79	2.58	2,	4.53	3.12	15.23		17.00				
WATER LEVE	2/1/	DEPTH EL	(TOC)					·		!					·	2.65		15.27	18.95	4.57	2.81	3.42	3.23	16.95		14.85				
	7	ELEV	(MSE)	10,81	10.46	7.40	7.36	7.47	7.57	7.58	6.84	6.93	8.38	8.16	8.14	7.75	7.97	31.93	32.74	7.15	5.10	26.7	6.35	32.18	32.02	31.85	32.75	11.87	7.57	6.51
	>	NORTHING	STPLN	2202541.83	2202536.55	2200285.60	2200281.06	2200986.02	2200981.47	2200977.04	2201740.28	2201735.35	2202412.40	2202418.08	2202402.71	2199063.9	2198464.0	2198074.8	2198966.8	2201086.7	2200321.5	2197396.9	2197417.0	2197566.0	2195899.8	2196198.9	2196870.3	2199402.7	2200319.46	2200551.45
	×	EASTING !	ST PLN	366613.91	366609.38	363450.20	363445.31	364166.15	364162.25	364158.18	364906.60	364902.28	365571.52	365576.46	365562.98	365497.2	365498.3	363421.2	364241.4	366452.8	367964.8	366597.0	367731.9	362977.9	363415.5	364395.6	365157.0	367408.9	365692.60	366068.69
			WELL/LOCATION	MPT-2-MW-341	MPT-2-MW-34S	MPT-2-MW-351	MPT-2-MW-35S	MPT-2-MW-36D	MPT-2-MW-361	MPT-2-MW-36S	MPT-2-MW-371	MPT-2-MW-37S	MPT-2-MW-38D	MPT-2-MW-381	MPT-2-MW-38S	MPT-2-P1	MPT-2-P2	MPT-2-P3	MPT-2-P4	MPT-2-P5	MPT-2-P6	MPT-2-P7	MPT-2-P8	MPT-2-P9	MPT-2-P10	MPT-2-P11	MPT-2-P12	MPT-2-P13	MPT-3-MW/3S	MPT-3-MW/8I

Table G-1 Appendix G, Potentiometric Surface Survey

98000	856088		92300			eriotei eniotei		e e e e e e e e e e e e e e e e e e e	ániatis						w.		XXXXX		(A)		33 / 33 / 33 / 33 / 33 / 33 / 33 / 33	Make,		\$ 3830					66 W.C.	
LEVEL	/94	ELEV	(MSL)			0.37	1.53		1.39		1,41		3.61		5.23		1 54	+C.1	0.47	21.0	-									
WATER LEVE	4/19/94	DEPTH	(TOC)			9.82	12 98	10.21	13.29	12 17	10.49	dN	9 68	25:5	77.7		00 11	3.5	88	CR'R										
EVEL	94	ELEV	(MSF)			1.03	1 07	10:1	1 73	2:-	151		4 17	11.4	20.0	0.27	3.63	1.89												
WATERLEVE	3/14/94	DEPTH	(TOC)			9 16	20.01	17.01	11.91	14.00	1.30	SO.O.	2	21.6	0 10	0.73	7.92	12.54	9.40											
I EVEI	704	FIEV		(50m)		205	20.5				4.75	01	00 1	4.00	0,1	7.16	4.36			4:34										
WATERIEVE	2/14/94	NEDTH		(201)		0 17	*- 'o				17.07	C1.U1	N S	3.63		5.84	7.21			8.78										
		7 2	ATC: A	(MOL)	100	200	10.19	13.93		13.72		11.90		13.29	13,34	13.00	11.57	11.73		13.12	12.55	13.11	11.46							10.03
	>		<u>5</u>	SI PLN	00 022000	SU.OCCUNZZ	2204730.6	2204968.2	ICT DEPTH	2205069.4	CT DEPTH	2205098.29	ICT DEPTH	2203931.17	2203937.57	2203928.57	2204828.90		JCT DEPTH	2205160.82	2204961.31	2205154.03		<b>3</b> 1		_	2205389.96	2205362.05		2205227.24
	;		<u>5</u>	SI PLN		366069.80	366284.7	366261.8	FREE PRODUCT DEPTH	366363.4	FREE PRODUCT DEPTH	366255.02	FREE PRODUCT DEPTH	366641.27	366645.09	366639.77	366149.22	366601.35	FREE PRODUCT DEPTH	366882.67	366890.10	366823.89	366493.34	FREE PRODU	366969.93	366852.94	366852.94	366701.22	366578.64	366393.49
		_		WELL/LOCATION		MPT-3-MW/8S		-2**	2	-3 **	=3	4 **	4-	1-5DD	-5	52	- A	1 **		8-1	MPT-8-MW9	MPT-8-MW10	MPT-8-MW11 **	MPT-8-MW11	MPT-8-MW12	MPT-8-MW13	-8-MW13S	MPT-8-MW14	8-1/15	
				WELL/L		MPT-3	MPT-8-	MPT-8-2**	MPT-8-2	MPT-8-3 **	MPT-8-3	MPT-8-4 **	MPT-8-4	MPT-8-5DD	MPT-8-5	MPT_R_ES	MDT_B_G	MIT I WIT TANK	MDT A-7	MPT	MPT-8	MPT-	MPT-	MPT-	MPT	MPT	MPT	MPT	MPT-8-1	MPT-8-N

Table G-1 Appendix G, Potentiometric Surface Survey

<u> </u>			******	****		8008		****		****			<b>***</b> ******					******	2500					*****			<u> </u>	*** <u>*</u>		
LEVEL	/94	ELEV	(MSL)				5.87	1.57	1.67	3.67	4.63	6.37	3.53	1.10	96'0	1.01	1.76	1.01	0.92	3.90	5.46	5.87	4.36	5.69		6.92				
WATER LEVE	4/19/94	DEPTH	(TOC)				7.02	11.13	11.50	11.00	9.37	8.50	10.89	12.29	10.57	11.21	8.92	11.15	9.50	6.07	7.60	6.92	6.05	4.19		2.74				
EVEL	94	ELEV	(MSL)				6.98	2.08	2.22	6.78	10.82	7.39	1.76	1.27	1.08		2.25	1.36	0.89	0.81	5.95	5.98	4.58	5.90	6.47	7.36				
WATER LEVE	3/14/94	DEPTH	(TOC)				6.01	10.62	10.95	7.89	3.18	7.48	12.66	12.12	10.45		8.43	10.80	9.53	9.16	7.11	6.81	5.83	3.98	3.57	2.30				
LEVEL	/94	ELEV	(MSL)				77.7	2.55	2.82	8.07	11.35	8.15	2.10				2.50	1.39	1.19	1.07		6.18	4.69	5.95	6.70	7.36	-			
WATER LEVE	2/14/94	DEPTH	(TOC)				5.12	10.15	10.35	09'9	2.65	6.72	12.32				8.18	10.77	9.23	8.90		6.61	5.72	3.93	3.34	2.30				
	7	ELEV	(MSL)	10.89	8.80	5,24	12.89	12.70	13.17	14.67	14.00	14.87	14.42	13.39	11.53	12.22	10.68	12.16	10.42	9.97	13.06	12.79	10.41	9.88	10.04	99.6	8.56	10.47	9.29	9.65
	>	NORTHING	ST PLN	2205125.44	2205001.92	2205168.89	2204936.81	2205240.42	2205051.43	2204484.88	2203955.67	2203359.60	2205218.76	2205465.38	2205507.62	2205413.58	2204745.46	2205130.88	2205331.99	2205342.93	2202051.50	2201306.77	2200862.19	2201085.38	2201499.20	2201904.44	2201097.10	2202014.26	2201869.31	2201731.67
	×	EASTING		366229.49	366161.36	366196.36	367186.01	368584.22	368103.65	367807.85	367285.99	366739.47	367081.42	367012.32	367182.99	367665.52	365963.80	369851.23	369902.23	369802.75	368004.04	367476.40	367740.56	367688.02	367718.67	367684.00	367844.66	367393.65	367548.90	367454.53
			WELL/LOCATION	-MW17	-8-MW18S	-8-MW19	J-P1	-P2	-8-P3	-8-P4	-8-P5	-8-P6	-	-2	£.	-P1	)-P1	1-MW-1	MPT-11-MW-2	I-MW-3	3-1	1-2	3-3	MPT-13-MW-4	-13-MW-5	-13-MW-6	3-MW-7	-13-MW-8	MPT-13-MW-9	MPT-13-MW-10
			WELL/LC	MPT-8-MW17	MPT-8-	MPT-8	MPT-8D-P1	MPT-8-P2	MPT-8-	MPT-8-	MPT-8-	MPT-8-	MPT-9-1	MPT-9-2	MPT-9-3	MPT-9-P1	MPT-10-P1	MPT-11-MW-	MPT-11	MPT-11	MPT-13-1	MPT-13-2	MPT-13-3	MPT-13	MPT-13	MPT-13	MPT-13-MW-	MPT-13	MPT-13	MPT-13

Table G-1 Appendix G, Potentiometric Surface Survey

					energy of	000000	******	alberto.	8000000	neciesti	800,0000			30.864.	-000000	<b>125</b> (6) (	*****	(Septiment)	80 80	888-85	X8086		Addition			*****	Sectors		XXXX	<b>8</b> 66	•
EVEL.	94	ELEV	(MSL)		6.50	6.23	5.27	3.31	7.40	1.46	1.63	1.56	1.21	10.0					4 45	454	7.75	2	0.03	2	1.55	3	2 A9	271	360		
WATER LEVEL	4/19/94	DEPTH	(TOC)		4.54	3.95	4.04	3.14	2.76	6.10	7.01	4.94	4.50	6.53					00 03	0.00	0.32	4.32	0.79	10.15	41 00	3:1-	ao a	2.00	255	2	
SVEL	4	ELEV	(MSL)			6.43	6.14	3.67		1.59	2.06	2.00	2.69	6.59					0	5.30	57.0	8.12	01	0.00	4.00	83.1	2 67	5.37	3.27	4.0	
WATER LEVEL	3/14/9	DEPTH EI	(TOC)			3.75	3.17	2.78		5.97	6.58	4.50	3.02	5.55					6	85.7	5.54	CS:1	1000	10.07	30.01	CS. L		4.40	C4.40	4C.7	
		LEV			7.99	6.58	6.43	4.02	8.61	1.84	2.29	2.08	1.90	7.46						6.03	6.01	8.65		1.02	70.	1.57		4.19	3.64	10.6	
WATERIEVE	2/14/94	OFPTH	(30)		3.05	3.60	2.88	2 43	1.55	5.72	6.35	4.42	3.81	4.68						7.25	4.82	1.42		9.63	39.6	11.07		3.78	4.08	2.14	
		_ -			11 04	10 18	931	6.0	10 16	7.56	8.64	6.50	5.71	12,14	11.77	11.26	12.18	12.45	12.37	13.28	10.83	10.07	10.51	10.65	11.19	12.64	14.65		7.72		6.70
	>	NICETHING I			2201715 OR	2201407 11	2201301 35	2201301.33	22021 20 08	2202120.03	2203726.01	2203675.56	2204016.18	2203210.74	2202904.36	2203086.80	2203165.15	2203378.84	2203377.06	2204181.74	2203728.61	2202423.37	2199534.45	2205467.99	2205439.14	2205253.48	2205968.20	2201071.35	2201113.61	2200638.40	2200765.09
	>		CT DING O		1 2 3 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3000/3.04	30/1/3/02	300000000	36/113.33	300073.40	374680 54	374024 70	375562 21	365726.19	365941.84	365641.31	365778.92	365767.26	365771.49	365689.15	365419.53	365853.46	362689.15	367483.22	367599.09	367542.02	367272.91	369942.21	370630.28	366582.71	366541.22
				WELL/LUCATION P		MP1-13-P1	MPI -13-P3	MP1-13-P4	MPT-13-P5	MP1-13-F6	MP1-14-1	MF1-14-14	MP!-14-F!	MF 1 - 14-1 2	AADT 15_MW2S	MPT-15-MW3S	MPT-15-MW4S	MPT-15-MW5	MPT-15-MW5S	MPT-15-P1	MPT-15-P2	MPT-15-P3	MPT-15-P4	MPT-16-2	MPT-16-3	MPT-16-MW-1D	MPT-16-MW4S	MPT-17-P1	MPT-17-P2	MPT-22-MW-1	MPT-22 1-25

Table G-1 Appendix G, Potentiometric Surface Survey

70000		المعادلة المعادلة	es es co	9908000		inch.	w	10.22±1	600000°	nes de	. October									Ċ											
LEVEL	/94	ELEV	(MSL)															2.93													
WATER LEVE	4/19/94	DEPTH	(TOC)															6.68													
LEVEL	3/14/94	ELEV	(MSL)														1.50														
WATER LEVE	3/1/	DEPTH	(TOC)														10.40			<i>i</i> ,											
!LEVEL	2/14/94	ELEV	(MSL)															3.51													
WATER LEVE	2/1/	DEPTH	(TOC)															6.10													
	<b>Z</b>	ELEV	(MSL)		5.85	6.88	7.05	7.21	11.85	8.97	7.50	7.19	7.19	14.66	14.59	10.08	11.90	9.61	12.15		10.61		13.45		14.88		14.87		15.66		14.34
	>	NORTHING	ST PLN		2200738.10	2200620.96	2200519.84	2200554.29	2204661.18	2201436.19	2199050.39	2199057.82	2199064.76	2204505.60	2206144.00	2205369.66	2205411.61		2204912.59	JCT DEPTH	366304.88 2205010.74	JCT DEPTH	2205026.60	<b>JCT DEPTH</b>	366462.32 2205084.36	JCT DEPTH	2205153.22	ICT DEPTH	366617.42 2205191.68	<b>ICT DEPTH</b>	2205099.05
	×	EASTING	ST PLN		366351.90	366292.19	366203.95	366329.36	365615.58	367377.77	372334.05	372332.38	372330.80	366904.01	368037.97	366493.83	366783.91	364658.45	366232.15	FREE PRODUCT DEPTH	366304.88	FREE PRODUCT DEPTH	366405.18	FREE PRODUCT DEPTH	366462.32	FREE PRODUCT DEPTH	366412.44	FREE PRODUCT DEPTH	366617.42	FREE PRODUCT DEPTH	366561.47
			WELL/LOCATION		MPT-26-MW1S	MPT-26-MW2S	MPT-26-MW3S	MPT-26-MW4S	MPT-28-MW1S	MPT-56-MW1S	MPT-B-MW1D	MPT-B-MW11	MPT-B-MW1S	S-1	MPT-S-1R	1-2	S-3	S-4	TPW-1 **	IPW-1	FPW-2**	TPW-2	TPW-3 **	TPW-3	TPW-4 **	TPW-4	TPW-5 **	TPW-5	TPW-6 **	1PW-6	TPW-7 **

Table G-1 Appendix G, Potentiometric Surface Survey

WATER LEVEL	66	DEPTH ELEV (MSL)										*
WATERIEVEL	3/14/94	DEPTH ELEV										
1	1	DEPTH ELEV	- 1888									
		NORTHING ELEV	ST PLN (MSL)	FREE PRODUCT DEPTH	366661.61 2205114.02 14.65	FREE PRODUCT DEPTH					05.11	
		EASTING	WELL/LOCATION ST PLN	IDW - 7 FREE PRO	**		SACE CO.	2000	SIAFF GAGE MO	STAFF GAGE NB	FI IFI PIER STAGE	

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Table G-1 Appendix G, Potentiometric Surface Survey

	(10)(S)	>			4.64	4.35	2.41	3.20	3.38		3.91			2000	6.36	2.92	1.48	7.04	7		6.82			2.62	666	2.48	.73	6.01	2.60	
LEVEL	1/94	ELEV	(MSL)												9	•4	7				•					C		9	2	
WATER LEVE	7/24/94	DEPTH	(TOC)		12.32	12.54	4.70	8.57	7.66		3.65			_	3.07	6.78	6.01	3.51			3.20			3.15		2.94	2.78	1.56	4.09	
		Ω			6	4									(0					80000						(0)				****
EVEL	4	ELEV	(MSL)		4.59	4.64									4.96						l					2.16	1.87			
WATER LEVE	7/1/94	DEPTH	(DOT)		12.37	12.25									4.47											3.26	3.64			
					æ	15	2.35	93	13							7	32	<b>£</b>			17	:	****			<b>38</b>	).(		21	*
LEVEL	94	ELEV	(MSL)		8	4.51	2,	3.39	3,							3.(	3.82	5.99			5.47					2.38	2.(		3.21	2.94
WATER LEVE	5/13/94	DEPTH	(TOC)		8.38	12.38	4.76	8.38	7.91							99.9	6.67	4.56			4.55					3.04	3.50	İ	3.48	3.79
	7	ELEV	MSL)	9.37	16.96	16.89	7.11	11.77	11.04	10.33	7.56	17.20	8.29	9.91	9.43	9.70	10.49	10.55	10.49	10.50	10.02	6.89	6.65	5.77	5.73	5.45	5.51	7.57	69.9	6.73
				63.68	2202286.9	2202618.3	2203345.2	2202891.0	2202846.0	2199297.5	2199855.4	2199038.7	2199896.7	2200114.4	2199779.9	2197403.6	2197405.6	2200144.7	2200338.7	2200345.5	2200333.6	2200458.0	2200460.6	20.77	2198829.9	2198211.9	2198209.6	2200319.6	2200286.8	2200289.0
	>	NORTHING	ST PLN	2200963.68	2202	2202	2203	2202	2202	2199	2199	2199	2199	2200	2199	2197	2197	2200	2200	2200	2200	2200	2200	2198820.77	2198	2198	2198	2200	2200	2200
	×	EASTING	Ş	372958.91	372829.0	372520.3	372912.0	373338.7	372166.0	365498.7	368573.7	364604.9	365011.2	365958.5	365492.5	365934.4	365926.7	365838.5	366127.7	366127.4	366391.8	367585.3	367584.9	368639.90	368644.3	368319.8	368318.3	365692.6	365475.2	365475.4
		EAS	ST PLN	37	(C)	E	3	3	<u>د</u>	6	9	6	C	6	6	6	6	6	(2)	6	6	6	(L)	36	3	(E)	9	6		
			TION									ļ. 										-DR	-SR	1-11	2-MW-11S	2-MW-12D	1-12S	1-13S	T-2-MW-16D	1-16S
			WELL/LOCATION	MAY-265-5	1-1	1-2	1-P1	1-P2	<b> </b>	2-1	-2-2	2-3	MPT-2-4R	2-5	2-6	2-7D	.2-7S	-2-8	-2-9D	MPT-2-9S	2-10	MPT-2-15-DR	MPT-2-15-SR	MPT-2-MW-11	2-MM	2-MM	-2-MW-12S	-2-MW-13S	2-MM	-2-MW
			WELL	MAY-	MPT-1-1	MPT-1	MPT-	MPT-	MPT-	MPT-2-1	MPT-	MPT-2-3	MPT-	MPT-	MPT-2-6	MPT-	MPT-	MPT-	MPT-	MPT-	MPT-2-10	MPT-	MPT-	MPT-	MPT-:	MPT-	MPT-	MPT-	MPT-	MPT-

Table G-1 Appendix G, Potentiometric Surface Survey

200000	00000000		eesees.		a filosopa	380000	SS SS SS SS SS SS SS SS SS SS SS SS SS	SS:SC						engine.	88000	90000	X IYYY	3842	SSS 8 G SS	*****		XXX.	:000;;		8888		78.2E	)   	o to the	<b>X</b>	\$000 <u> </u>
EVEL	94	ELEV	(MSL)	419	4.07	4.73	2.86	4.04	2.42	7.23	11.08	3.81		0,0	2.48	0.35	8.13	2.46	9.03	3.28	12.36	2.66	10.77	5.71	6.24	2.56	7.48	0.48	2.34	2,70	4
WATER LEVE	7/24/94	DEPTH	(TOC)		3.72	3.00	4.97	2.47	3.95	25.27	21.01	3.75			2.74	5.01	24.16	29.32	23.04	29.07	20.05	5.33	65.9	3.72	2.67	6.52	1.66	7.91	10.15	6.63	0.83
EVEL	-	ELEV	(MSL)		4.31	3.83														T de											
WATER LEVE	7/1/94	DEPTH	(TOC)		3.48	3 90																									
I EVE	76/	FIFV	(ISW)	(Ecm)																											
WATERIEVE	5/13/94	DEPTH		(SOL)																											
	_	7 2	ATC:	(MOL)	07.7	7.73	C J. 7	7.00	0.0	200	32.50	7.56	7.19	8.09	5.22	5.36	30.00	24 7B		12		1	47.95	1	0.45			7 00		12.43	_
	>		2	SI PLIN	0000000	2197412.0	2197409.0	219/41/.00	220055.45	2200250.UB	2200025.53	2199000.94	2199562.64	2199568.02	2199413.41	210040R R5	2100055 95	04 000E0 40	_	_	<u></u>	_	_	#1.C/00012			_	-+		22005/3.95	+
	;		<u>5</u>	SI PLN		365/73.2	365//5.4	365767.72	366068.67	366069.80	366211.19	305030.07	36552R 11	26552R 11	268053.87	2000000	300300.04	300000.00	36/458.00	30/402.00	30/493.33	36/500.15	366591.50		$\perp$		364246.62	364241.07	364816.58	364813.13	365490.50
				WELL/LOCATION		MPT-2-MW-17D	2-MW-17S	MPT-2-MW-171	-2-MW-18I	-2-MW-18S	MPT-2-MW-19S	2-MW-20S	MPT -2-MW -215	1 - Z - MINV - ZZ I	2 - MIN - 220	-Z-WW-Z-	-2-MW-23	-2-MW-243	MPT-2-MW-251	MPT-2-MW-255	MPT-2-MW-261	MPT-2-MW-26S	MPT-2-MW-271	MPT-2-MW-28S	-2-MW-29S	T-2-MW-30S	MPT-2-MW-311	MPT-2-MW-31S	MPT-2-MW-321	MPT-2-MW-32S	MPT -2-138
				WELLA		MPT-	MPT-	MPT-	MPT-2	MPT-2	MPT-	MPT	MPT				MPT	MPI	MPT	H L	MPT	MPT	MPT	MPT	MPT	MPT-	MPT-	MPT-	MPT-	MPT-	MPT-2-

Table G-1
Appendix G, Potentiometric Surface Survey

				MATCO I CAC	10/01	WATER I EVE	1 5/5	WATER! EVE	E/E
			1	WAILI	יייי דיייי		ן רר ירר מיי		ָרָרְיִּרְ פַּיִּרְיִּרְ
	×	>	Z	5/13	8/94	7/1/94	. 1	7/24/94	/94
	EASTING	NORTHING	ELEV	DEPTH E	ELEV	DEPTH	ELEV	DEPTH	ELEV
WELL/LOCATION	ST PLN	ST PLN	(MSL)	(TOC)	(MSL)	(TOC)	(MSL)	(тос)	(MSL)
MPT-2-MW-34I	366613.91	2202541.83	10.81					13.70	-2.89
MPT-2-MW-34S	366609.38	₽-						1.15	9.31
MPT-2-MW-351	363450.20	1	7.40					4.80	2.60
MPT-2-MW-35S	363445.31	2200281.06						1.90	5.46
MPT-2-MW-36D	364166.15	2200986.02						5.40	2.07
MPT-2-MW-361	364162.25	2200981.47	7.57					5.55	2.02
MPT-2-MW-36S	364158.18	2200977.04	7,58					3.55	4.03
MPT-2-MW-371	364906.60	2201740.28	6.84					5.15	1.69
MPT-2-MW-37S	364902.28	-						2.50	4.43
MPT-2-MW-38D	365571.52	2202412.40	8.38					6.23	2.15
MPT-2-MW-381	365576.46	2202418.08						5.25	2.91
MPT-2-MW-38S	365562.98	2202402.71	8,14					2,69	5.45
MPT-2-P1	365497.2	2199063.9		2.72	5.03				
MPT-2-P2	365498.3								
MPT-2-P3	363421.2	2198074.8		24.03				25.04	6.83
MPT-2-P4	364241.4	2198966.8	32.74	25.15	2 7.59			26.02	6.72
MPT-2-P5	366452.8	2201086.7	7.15	4.82	2.33			3.71	3.44
MPT-2-P6	367964.8	2200321.5	5.10	3.06	2.04			2.45	2.65
MPT-2-P7	366597.0	2197396.9	7.95	2.40				3.74	4.21
MPT-2-P8	367731.9	2197417.0	6.35	3.44	2.91			2.94	3.41
MPT-2-P9	362977.9	2197566.0	32.18	25.23	6.95			26.20	5.98
MPT-2-P10	363415.5	2195899.8		24.00				27.51	4.51
MPT-2-P11	364395.6	2196198.9		25.36	6.49			26.01	5.84
MPT-2-P12	365157.0	2196870.3	32.75						
MPT-2-P13	367408.9	$\dashv$						1.56	10.31
MPT-3-MW/3S	365692.60	_							
MPT-3-MW/8I	366068.69	2200551.45	6.51						

Table G-1 Appendix G, Potentiometric Surface Survey

WATER LEVEL	7/24/94		(TOC)		10.03 0.16			12.05				0.01 3.48		0.00	0.00		00.01	10.20										
WATER LEVEL	7/1/94	NEDTH EI EV					0		0		11.11		9		60		9		*									
WATERIEVE	E/12/04	5	DEPIH ELEV		96.0		11.97 2.00		11.92 1.80		10.21 1.69		9.53 3.76		8.12 4.88		9.57 2.16	<b>2</b>										-1
	, ,	<b>7</b>	<u> </u>	SI PLN (MOL)		2204730.6 10.19	2204968.2 13.93		2205069.4 13.72	<u> </u>	2205098.29 11.90	JCT DEPTH	7	2203937.57	2203928.57	<u> 1 -                                  </u>	2205103.19	UCT DEPTH	05160.82	2204961.31 12.55	2205154.03 13	2205203.57 11.46	FREE PRODUCT DEPTH	-	2205389.96	2205389.96	2205362.05	70 0
nayport, i ionda			EASTING	WELL/LOCATION ST PLN	MPT-3-MW/8S 366069.80	_a_1 366284.7	**	MPT_8_9 FREE PRODUCT DEPTH	4.4	MPT_R_3 FREE PRODUCT DEPTH	**		00		d		44	Ü		MPT_R_MW9 366890.10	0	#				0	366701.22	

Table G-1 Appendix G, Potentiometric Surface Survey

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LEVEL	/94	ELEV	(MSL)	1.2	1.68			1.67	2.13	5.64	8.70	5.94	1.49			0.88	1.95	1.2	1.02	1.0	6.13	6.3	5.24	5.0	6.71	7.28				
WATER LEVE	7/24/94	DEPTH	(TOC)	9.64	7.12			11.03	11.04	9.03	5.30	8.93	12.93			11.34	8.73	10.90	9.40	8.90	6.93	6.47	5.17	4.83	3.33	2.40				
EVEL	4	ELEV	(MSL)										1.20	0.64	0.47			1.13	0.66	0.63										***
WATERLEVE	7/1/94	DEPTH	(TOC)										13.22	12.75	11.06			11.03	9.76	9.34										
EVEL	94	ELEV	(MSL)				5.65	1.77	1.96	5.45	5.30	6.26	1.75	1.51	1.55	1.31	2.07	1.39	1.48	1.43		5,71	4.27	4.80	6.25					
WATER LEVE	5/13/94	DEPTH	(TOC)				7.24	10.93	11.21	9.22	8.70	8.61	12.67	11.88	96.6	10.91	8.61	10.77	8.94	8.54		7.08	6.14	2.08	3.79					
	7	ELEV	(MSL)	10.89	8.80	5.24	12.89	12.70	13.17	14.67	14.00	14.87	14.42	13.39	11,53	12.22	10.68	12.16	10.42	9.97	13.06	12.79	10.41	9.88	10.04	99.6	8.56	10.47	9.29	9.65
	>	5 NE	STPLN	2205125.44	2205001.92	2205168.89	2204936.81	2205240.42	2205051.43	2204484.88	2203955.67	2203359.60	2205218.76	2205465.38	2205507.62	2205413.58	2204745.46	2205130.88	2205331.99	2205342.93	2202051.50	2201306.77	2200862.19	2201085.38	2201499.20	2201904.44	2201097.10	2202014.26	2201869.31	2201731.67
	×	<u>ত</u>		366229.49	366161.36	366196.36	367186.01	368584.22	368103.65	367807.85	367285.99	366739.47	367081.42	367012.32	367182.99	367665.52	365963.80	369851.23	369902.23	369802.75	368004.04	367476.40	367740.58	367688.02	367718.67	367684.00	367844.66	367393.65	367548.90	367454.53
			WELL/LOCATION	MPT-8-MW17	MPT-8-MW18S	MPT-8-MW19	MPT-8D-P1	MPT-8-P2	MPT-8-P3	MPT-8-P4	MPT-8-P5	MPT-8-P6	MPT-9-1	MPT-9-2	MPT-9-3	MPT-9-P1	MPT-10-P1	MPT-11-MW-1	MPT-11-MW12	MPT-11-MW-3	MPT-13-1	MPT-13-2	MPT-13-3	MPT-13-MW-4	MPT-13-MW-5	MPT-13-MW-6	MPT-13-MW-7	MPT-13-MW-8	MPT-13-MW-9	MPT-13-MW-10

Table G-1 Appendix G, Potentiometric Surface Survey

Y Z NORTHING ELEV ST PLN (MSL 2201715.98 1 2201497.11 10 2201301.35		5/13/94 DEPTH ELE (TOC) (MS	ELEV	7/1/94 DEPTH ELE	ELEV MSI)	7/24/94 DEPTH E (TOC) (	ELEV (MSL)
<b>₩</b>		2	ELEV	DEPTH	ELEV MSI)		ELEV (MSL)
	_		1010	(CE	( IV.		(MSL)
	,		(MOL)	7201			
1715.98 1497.11 1301.35							
1497.11	11.04	4.58	6.46			4.17	6.87
1301.35	10.18	4.97	5.21			3.57	0.0
1019 93	9.31	3.93	5.38			2.38	0.33
3113	6.45	3.02	3.43			00.	1.00
2202120.09	10.16	2.75	7.41	1		4.7	9.02
2203770.87	7.56	5.75	1.81	6.22	1.34	5.43	200
2203726.01	8.64			26.90	1.74	4 53	4 97
2203675.56	6.50	4.66	1.84			4.33	5 4
2204016.18	5.71	3.97	1.74			4.10	5.7
2203210.74	12.14					0.00	17.C
2202904.36	11.77					30.02	5.48
2203086.80	11.26					2.00	0,40
2203165.15	12.18					0.71	2 50
2203378.84	12.45					0.00	2 87
2203377.06	12.37					00.0	20.0
2204181.74	13.28	9.14	4.14			9.62	200
2203728.61	10.83	6.50	4.33			4 00	4.03
2202423.37	10.07	2.92	7.15			06.7	5.5
2199534.45	10.51			3	07.0	300	200
2205467.99	10.65	9.62	1.03	10.46	0.19	10.00	690
2205439.14	11.19	9.68	1.51	10.70	24.0	4 00	A7 0
2205253.48	12.64	10.93	1.71	11.93	0.71	08.1	5 5
2205968.20	14.65	:		9.45	5.20	9.65	3 8
2201071.35	7.97	5.08	2.89			4.74	3.5
2201113.61		00 7	D 7.4			4.43	87.E
2200638.40	7.72	4.90	1			000	
2200765.09	7.72	3.56	3.59			2.68	4.4/

Table G-1 Appendix G, Potentiometric Surface Survey

I EVE	7/24/94	ELEV	(MSL)	3.94			7	1.93		2.42		1.98		11.47	1.04			4.15		1.61		1.54		1.38					
WATERLEVE	7/2	DEPTH	(TOC)	1.91	2.50	1,48	2.58	9.92		5.08	4.54	5.21		3.12	9.04		6.52	8.00	NP	9.00	ď	11.91	ď	14.42	13.35				
WATERIEVE	7/1/94	ELEV	(MSL)							i				10.94		0.73	1												
WATE	1/2	DEPTH	(TOC)											3.65		11.17													3
WATER LEVEL	5/13/94	ELEV	(MSL)																										
WATE	5	DEPTH	(TOC)																÷										
	7	ELEV	(MSL)	5.85	6.88	7.05		_	15.1	7.50						L	_			10.61		13.45		14.88		14.87		15.66	
	>	NORTHING		2200738.10	2200620.96	2200519.84	2200554.29	2204661.18	2201436.19	2199050.39	2199057.82	2199064.76	2204505.60	2206144.00	2205369.66	2205411.61	_	2204912.59	UCT DEPTH	2205010.74	<b>UCT DEPTH</b>	2205026.60	<b>JCT DEPTH</b>	2205084.36	JCT DEPTH	2205153.22	JCT DEPTH	2205191.68	
	×	EASTING	ST PLN	366351.90	366292.19	366203.95	366329.36	365615.58	367377.77	372334.05	372332.38	372330.80	366904.01	368037.97	366493.83	366783.91	364658.45	366232.15	FREE PRODUCT DEPTH	366304.88	FREE PRODUCT DEPTH	366405.18	FREE PRODUCT DEPTH	366462.32	FREE PRODUCT DEPTH	366412.44	FREE PRODUCT DEPTH	366617.42	
			WELL/LOCATION	MPT-26-MW1S	26-MW2S	MPT-26-MW3S	26-MW4S	MPT-28-MW1S	MPT-56-MW1S	B-MW1D	MPT-B-MW1	MPT-B-MW1S		S-1R				1 **	0	2**	2	3 **	6	4 * 4	4	5 **	5	9 **	
			WELL	MPT-	MPT-	MPT-	MPT-	MPT-	MPT-	MPT-	MPT	MPT-	S-1	MPT-S-1R	S-2	S-3	S-4	TPW-	TPW-1	TPW-2**	TPW-2	TPW-3 **	TPW-3	TPW-4	TPW-4	TPW-5 **	TPW-5	TPW-6 **	

Table G-1 Appendix G, Potentiometric Surface Survey

Mayport, Horica						CLANA	בְּרֵבְי	WATED!	<u>ה</u> /ה
				WATER		WAIER		WAILIN	ן ראַ
	>	>	7	5/13/94	104	7/1/94	94	7/24/94	/94
		•	ـــــــــــــــــــــــــــــــــــــ	D ITUL	/ 10	DEPTH	FIFE	DEPTH	ELEV
	EASTING	<u>5</u>	ELEV	1 1 1 1	ברכא	- CC		: ززز	(IV)
				(10C)	(MSC)	() () ()	(MOL)	(201)	(MOL)
WELL/LUCATION									
			_					AN M	
TPW-7	FREE PRODUCT DEPTH	JCT DEPTH						07 67	1 55
T 0 +*	366661 61	366661 61 2205114.02	14.65					2 :	3
0- 11	20000	114040				0.00		2	
TPW-8	FREE PRODUCI DEFIN	JCI DEPIH							
CTACE CAGE CG				-					
משטרו מעום									
STAFF GAGE MU									
STAFF GAGE NB									
10.10			1.30						
FUEL PIEH STAGE			3						

Table G-1 Appendix G, Potentiometric Surface Survey

EVEL	14	ELEV	(MSL)				4.04		3.62		4.80	9.12			6.28	3.77	5.11				7.04			2.95		3.31	4.04	6.79		
WATER LEVE	9/21/94	DEPTH	(TOC)				3.07		7.42		2.76	8.08			3.15	5.93	5.38				2.98			2.82		2.11	1.47	0.78		
LEVEL	94	ELEV	(MSL)	5.16	5.16		2.24	3.50	3.17			8.72		7.06	5.23	4.00	5.89				6.41			2.05		2.32	2.10	5.65		
WATERLEVE	8/30/94	DEPTH	(TOC)		11.80		4.87	8.27	78.7			8.48		2.85	4.20	5.70	4.60				3.61			3.72		3.10	3.41	1.92		
LEVEL	/94	ELEV	(MSL)																					·						
WATER LEVE	8/17/94	DEPTH	(TOC)															·												
	Z	ELEV	(MSL)	9.37	16.96	16,89	7.11	11.77	11.04	10.33	7.56	17.20	8.29	9.91	9.43	9.70	10,49	10.55	10.49	10.50	10.02	68.9	6.65	5.77	5.73	5.42	5.51	75.7	69.9	6.73
	>	<u>9</u>		2200963.68	2202286.9	2202618.3	2203345.2	2202891.0	2202846.0	2199297.5	2199855.4	2199038.7	2199896.7	2200114.4	2199779.9	2197403.6	2197405.6	2200144.7	2200338.7	2200345.5	2200333.6	2200458.0	2200460.6	2198820.77	2198829.9	2198211.9	2198209.6	2200319.6	2200286.8	2200289.0
	×	<u> </u>		372958.91	372829.0	372520.3	372912.0	373338.7	372166.0	365498.7	368573.7	364604.9	365011.2	365958.5	365492.5	365934.4	365926.7	365838.5	366127.7	366127.4	366391.8	367585.3	367584.9	368639.90	368644.3	368319.8	368318.3	365692.6	365475.2	365475.4
			WELL A OCATION	MAY-265-5	MPT-1-1	MPT-1-2	MPT-1-P1	MPT-1-P2	MPT-1-P3	MPT-2-1	MPT-2-2	PT-2-3	MPT-2-4R	MPT-2-5	MPT-2-6	MPT-2-7D	1 t	MPT-2-8	11	MPT-2-9S	MPT-2-10	MPT-2-15-DR	MPT-2-15-SR	MPT-2-MW-111	MPT-2-MW-11S	MPT-2-MW-12C		MPT-2-MW-13S	MPT-2-MW-16D	MPT-2-MW-16S

Table G-1 Appendix G, Potentiometric Surface Survey

Mayport, Florida							į	LOTTAGE	
				WATER LEVEL	LEVEL	WATER LEVE	LEVEL	WAIEHLEVE	רענו
	;	>	· <b>^</b>	8/17/94	75/	8/30/94	/94	9/21/94	94
	×		_ 7	NEDTU	EI EV	NFPTH	ELEV	DEPTH	ELEV
	EASTING	NOTIFIED	בוני	חבים ח	֓֞֞֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	1		()	
NOITAGO N LIBAN	ST PI N	ST PLN	(MSL)	(20C)	(MSL)	(20I)	(MOL)	7001	(WOL)
	0 001-100	04074490	7 79			3.20	4.59	3.08	4.71
MPT-2-MW-17D	3.67/505		7 73			2.87	4.86	2.38	5.35
MPT-2-MW-17S	365//5.4	219/409.0	7.83			4.87	2.96	4.30	3.53
MPT-2-MW-1/I	31.101.000	+	3 4			3.78	2.73		
MPT-2-MW-181	366068.67		10.0			2.58	3.79		
MPT-2-MW-18S	366069.80	4	1			20.40	12.10	22.65	9.85
MPT-2-MW-19S	366211.19	-	32.30			11.38	20.71	14.74	17.35
MPT-2-MW-20S	366630.67	<del>-</del>				4 00	3.56		
MPT-2-MW-21S	367896.59	-	00.7			A OR	291	4.80	2.39
MPT-2-MW-22	365528.11					7.00	10.2 10.3	91 C	5.91
MPT-2-MW-22S	365528.11		8.09			0.73		- 80	3.40
MPT-2-MW-23S	368953.87	7 2199413.41				2.32	2.30	1.02	2 4
100 1444 O 101	26R050 54	2199408.85	_			3.15		2.10	9.0
MF1-Z-MW-23	20000000 20000000000000000000000000000		L			19.30	12.99	22.23	10.0 <del>6</del>
MFI-Z-MW-Z43	303000		↓					28.11	3.67
MPI -2-MW-251	30.4500		1			28.28	2.78		
MPT-2-MW-25S	30/402.0	-				6.20	26.15	29.15	3.20
MPT-2-MW-261	36/485.38					29.80		12.34	20.07
MPT-2-MW-26S	367500.15					5.41		4.80	3.19
MPT-2-MW-271	366281.50	-+				6.28	_	6.24	11.12
MPT-2-MW-28S	364360.80		$\perp$			3.58		1.35	8.08
MPT-2-MW-29S	364774.65	5 2193942.71				3.08	5.83	29'0	8.24
MPT-2-MW-30S	365514.36		_			6.35		5.75	3.33
MPT-2-MW-311		_				2.26		0.20	8.94
MPT-2-MW-31S		-	2000			7.75		7.15	1.24
MPT-2-MW-32	_	+			Ø	2.60		0.25	12.24
: 1: 1	364813.13	∔				6 45	2.88	5.72	3.61
MPT-2-102-331		-				200		0.10	
MPT-2-1	365490.50	0 2201361.44	9.47			Z05			
)									

Table G-1
Appendix G, Potentiometric Surface Survey

WATER LEVEL	9/21/94		(TOC) (MSL)	100	5.33 5.48	-0.30										0.25 7.89					3.42	ļ			26.12 6.06		25.95 5.90				
LEVEL	94	ELEV	(MSL)		-1.04	8.25	2.66	5.12	3.01	2.05	4.01	1.92	4.93	2.24	2.59	4.83	5.17		6.70	3:74	2.47		4.86		5.84		4.54				
WATER LEVEL	8/30/94	DEPTH	(TOC)		11.85	2.21	4.74	2.24	4.46	5.52	3.57	4.92	2.00	6.14	29.57	3.31	2.58		25.23	29.00	4.68		3.09		26.34		27.31				
LEVEL	/94	ELEV	(MSL)																												
WATER LEVEL	8/17/94	DEPTH	(TOC)			:																									
	7	ELEV	(MSL)		10.81	10.46	7.40	7.36	7.47	7.57	7.58	6.84	6.93	8.38	8.16	8.14	7.75	7.97	31.93	32.74	7.15	5.10	7.95	6.35	32.18	32.02	31.85	32.75	11.87	7.57	6.51
	>	NORTHING			2202541.83	2202536.55	2200285.60	2200281.06	2200986.02	2200981.47	2200977.04	2201740.28	2201735.35	2202412.40	2202418.08	2202402.71	2199063.9	2198464.0	2198074.8	2198966.8	2201086.7	2200321.5	2197396.9	2197417.0	2197566.0	2195899.8	2196198.9	2196870.3	2199402.7	2200319.46	2200551.45
	×	EASTING	STPLN		366613.91	366609.38	363450.20	363445.31	364166.15	364162.25	364158.18	364906.60	364902.28	365571.52	365576.46	365562.98	365497.2	365498.3	363421.2	364241.4	366452.8	367964.8	366597.0	367731.9	362977.9	363415.5	364395.6	365157.0	367408.9	365692.60	366068.69
			WFLL/LOCATION		MPT-2-MW-34	MPT-2-MW-34S	MPT-2-MW-35I	MPT-2-MW-35S	MPT-2-MW-36D	MPT-2-MW-361		MPT-2-MW-371	MPT-2-MW-37S	MPT-2-MW-38D	MPT-2-MW-38	MPT-2-MW-38S	MPT-2-P1	MPT-2-P2	MPT-2-P3	MPT-2-P4	MPT-2-P5	MPT-2-P6	MPT-2-P7	MPT-2-P8	MPT-2-P9	MPT-2-P10	MPT-2-P11	MPT-2-P12	MPT-2-P13	MPT-3-MW/3S	MPT-3-MW/8I

Table G-1
Appendix G, Potentiometric Surface Survey

								D/ATCD 1 D/A	
				WATER LEVEL	EVEL	WAIEHLEVE	רבעבר	MAICH	1
	>	>		8/17/94	34	8/30/94	/94	9/21/94	94
			↓ 1 }	NE DE LA	E EV	DEPTH	ELEV	DEPTH	ELEV
	EASTING F		ברני סרני			200	AICIN	(LOC)	
WELL / OCATION S	STPLN	ST PLN (	(MSL)	(TOC)	(MSL)	(30t)	(MOL)	()	7
	00 050550	POWERR DR	R 37						
MPI-3-MW/85	_	00000000000000000000000000000000000000	10 10	08.0	0.39	10.01	0.18	7.87	2:32
MPT+8+1	366284.7	2204130.0	2 0	10.3a	1.79	12.81	1.68	11.20	3.14
MPT-8-2 **	366261.8	7.204905.Z	25.5	07.07		1218		10.72	
MPT-8-2	FREE PRODUCT DEPTH	CI DEPIH		12.10		0000	4 E4	11 45	2.79
MPT_8_3 **	366363.4	2205069.4	13.72	13.05	3	02.20	5	10.05	
- C	FREE PRODUCT DEPTH	CT DEPTH		12.20		12.09		10.03	000
** *	SARSER NO	220FN9R 29	11.90	10.30	39:1	10.52	1.38	9.50	2002
le B	SOUGHANDS	CT DEPTH		dN		10.52		2	
	20074 07	00000117	13.99			9.99	3.30	9.15	4.14
MPT-8-500	300041.27	2000007 57	10.04			9.68	3.66	8.20	5.14
MPT-8-51	366645.09	75778837.57	10.0			A R7		6.81	6.19
MPT-8-5S	366639.77	2203928.57	13.00					S	5.57
MOTOLE	366149.22	2204828.90	11.57	7.90	3.67	\$7.00 \$2.00	2	3 6	0 40
0 0 1 44 0 7 44	366A1135	2205103.19	11.73	10.60	1.56	10.47	1.73	9.58 6.58	00
7 0	FOCE PROPINITY DEPTH	ICT DEPTH	-	10.10		9.92		χ. Σ	
/-9-	בחבב ו ווסבי	1000E1E0 80	12 19	9 45	3.67	9.95	3.17	8.15	4.97
MPT-8-8	300002.07	2203100.02	10.55	7 10	5.45	7.37		5.20	7.35
MPT-8-MW9	366890.10	2204501.31	16.00	14 45	401	1104		9.55	3.56
MPT-8-MW10	366823.89	2205154.03	1.5	11.00	1 24	11 03		9.44	2.70
MPT-8-MW11 **	366493.34	75.5U25U22	- 1.40	27.1		100		8.65	
MPT-8-MW11	FREE PRODUCT DEPTH	CT DEPTH		20.00	0	44 60	1 41	10.25	2.68
MPT-8-MW12	366969.93	2205289.81	12.93	11.61	1,32	70.11	-	881	2.52
MPT-8-MW13	366852.94	2205389.96	11.33		3	40 46	4 18	8.55	2.78
MPT_R_MW13S	366852.94	2205389.96	11.33	10.27	97.1	10.13	-   '	200	37.0
MOT O LAMAN	36870122	2205362.05	10.72	9.75	0.97	9.58	1.14	8.7	27.0
Mr. 1 -0 - WIVE 14	926578 64	╄	L					C4.)	10.7
ICI MM-8-IJM	200370.07	┿		9.78	0.91	9.28	1.14	7.29	2.75
MFI-8-MW155	SOCCESS: 45 SECONDS	LAT DEDTU	_	9.01		8.83		7.28	
Ĭ	TATE PROS	1 000 DEF 111	$\downarrow$	36.0	0.75	9.14	0.89	7.62	14
MPT-8-	366393.49	220527.24	10.05	9.6					

Table G-1 Appendix G, Potentiometric Surface Survey

Table G-1 Appendix G, Potentiometric Surface Survey

					7.36	3 3	5	77.7	20 0	3 0	0 0	3.32	2.33		8.80	7.36	53	5.18	5.74	5.12	4.89		7.26	3.95	9	2.38	8.		4
EVEL	94	ELEV	(MSL)		7			4	C	V C	2	2	7		<b>∞</b>	_		2	S	. 2	4		7			7			
WATER LEVEL	9/21/94	DEPTH	(TOC)		0 80	202	2.00	2.23	1	4.7	5.45	3.18	2.72		2.97	3.90	4.59	7.27	6.63	8.16	5.94		3.25	6.70	9.93	10.26	7.59		30
EVEL	94	ELEV	(MSL)		00 0	0.23	6.82	0.63			2.01	1.83	1.56	5.35	6.73	5.47	5.69	3.78	4.18	3.83	4.27	7.18	5.74	1.37	1.23	1.78	5.39	3.08	200
WATER LEVEL	8/30/94	DEPTH	(TOC)		000	3.03	2.49	5.82			6.63	4.67	4.15	6.79	5.04	5.79	6.49	8.67	8.19	9.45	6.56	2.89	4.77	9.28	96.6	10.86	9.26	4.89	7 7 7
FVFI	94	ELEV	(MSL)											5.71	7.02	5,80	6.00		4.33						0.93	1.64			
WATER! EVE	8/17/94	DEPTH	TOC	200										6.43	4.75	5,46			8.04						10.26	11.00			
		ELEV L	(ISW)	7	11.04	10.18	9.31	6.45	10.16	7.56	8.64	6.50	5.71	12.14	11.77	11.26	12.18	12.45	19.37	13.28	10.83	10.07	10.51	10.65	11.19	12.64	14.65	7.97	
	>	NORTHING E			2201715.98	2201497.11	2201301.35	2200912.23	2202120.09	2203770.87	2203726.01	2203675.56	2204016 18	2203210 74	2202904.36	2203086.80	2203165 15	2203378 84	2202377 06	2204181 74	2203728.61	2202423.37	2199534 45	2205467.99	2205439.14	2205253.48	2205968.20	2201071.35	
	>	A FACTING N			366075.64	367715.82	368068 63	367115.33	366879.48	374860.12	374680.54	374024 70	275569 91	965796 10	365041 A4	265641 31	365778 92	303110.3E	303/01.20	363771.43	365419 53	365853 46	362689 15	367483 22	267599 09	367542 02	367272 91	369942.21	
				WELL/LOCATION	MPT-13-P1	MDT_43_03	-13-F3	-13-P5	-13-P6	MDT-14-1	MI 1 14 2	MIT 17 E	- 1-1-1-	MF1-14-F2	-13-1 - 45- 4840C	MILITAL TANADO	TANAMAC	Mr 13-140	ICMM-CL-1-IM	CCMM-CL-IAM	MP1-13-F1	MF1-13-F2	MPI-13-15	MF1-13-F4	MF1-10-2	MF ( - 10 - 0	MIT 1- 10-MIN 10	MIT 1 - 10 - MITTER	
			į	WELL	MPT-	MOT	MPI	MPT	MPT	TOM	TOM	TON		_ 	Σ	1	Z E	Σ Σ	MF	Σ.	Z E	- L Σ	E E	Σ :	Σ	2	Σ   2	_ 	TOV

Table G-1 Appendix G, Potentiometric Surface Survey

					į		Ç		0
				WAIEHLEVE	LEVEL	WAIEHLEVE	LEVEL	WAIENLEVE	בעבר
	×	>	7	8/17/94	/94	8/30/94	//94	9/21/94	94
	EASTING	NORTHING EL		DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
WELL/LOCATION	ST PLN	ST PLN	_	(TOC)	(MSL)	(TOC)	(MSL)	(TOC)	(MSL)
MPT-26-MW1S	366351.90	2200738.10	5.85			2.26	3.59		
MPT-26-MW2S	366292.19	2200620.96	6.88			2.72	4.16		
-26-MW3S	366203.95	2200519.84	7.05			2.28	4.77		
MPT-26-MW4S	366329.36	2200554.29	7.21	-		2.88	4.33	1.31	5.90
MPT-28-MW1S	365615.58	₩	11.85			9.93	1.92	99.8	3.19
MPT-56-MW1S	367377.77	2201436.19	8.97			2.50	6.47	<b>2.</b>	7.68
MPT-B-MW1D	372334.05	2199050.39	7.50						
MPT-B-MW11	372332.38	2199057.82	7.19						
MPT-B-MW1S	372330.80	2199064.76	7.19						
	366904.01	2204505.60	14,66						
MPT-S-1R	368037.97	-	14.59	*		4.50	10.09	1.40	13.19
	366493.83	├_	10.08	8.82	1.26	8.89	1.19	7.41	2.67
	366783.91	2205411.61	11.90	11.02	0.88	10.80	1.10	9.00	2.90
	364658.45	2199526.50	9.61			6.43	3.18	5.94	3.67
	366232.15	2204912.59	12.15	7.92	4.23	8.28	3.87	6.52	5.63
	FREE PRODUCT DEPTH	UCT DEPTH		NP		NP		NP P	
	366304.88	2205010.74	10.61	9.10	1.60	9.08	1.64		
	FACE PRODUCT DEPTH	UCT DEPTH		9.00		8.95			
-	366405.18	2205026.60	13.45	11.85	1.60	11.72	1.73	10.32	3.13
	FREE PRODUCT DEPTH	<b>UCT DEPTH</b>		₽		NP		ď	
	366462.32	2205084.36	14.88	14.20	1.44	13.98	1.61	12.78	2.90
	FREE PRODUCT DEPTH	UCT DEPTH		13.32		13.15		11.85	
	366412.44	2205153.22	14.87	14.09	1.34	13.99	1.36	12.92	2.92
	FREE PRODUCT DEPTH	UCT DEPTH		13.44		13.43		11.79	
	366617.42	2205191.68	15.66	15.00	1.43	14.72	1.48	14.57	2.98
	FREE PRODUCT DEPTH	UCT DEPTH		14.10		14.09		12.37	
	366561.47	2205099.05	14.34	12.76	1.59	12.72	1.71	11.49	3.23

Table G-1 Appendix G, Potentiometric Surface Survey

dyport, rising					į	CHANGE	ָבָילָב <u>ו</u>	MATEDI	ת/ט
		I		WAIEH		WAIER LEVEL	LEVEL	WAILI	1
	>	>	_	8/17/94	/94	8/30/94	/94	9/21/94	94
	CACTINIC	NORTHING	ָּ בַּאַי	DEPTH	ELEV	DEPTH	ELEV	DEPTH	ELEV
		ST PIN (MSI)	MSI)	TOC	(MSF)	(TOC)	(MSL)	(TOC)	(MSL)
VELL/LUCATION			7-2-1						
		CERC BOOM ICT NEETH		12.75		12.62		11.05	
FW-/	דות בו דוטט			i	4 67	49.78	1 87	10 15	4.50
	366661.61	366661.61 2205114.02	14.65	12.30	70.1	12.70	5	2 2	
PW-8	FREE PROD	FREE PRODUCT DEPTH		NP P		d N		CI.UI	
TAFF GAGE CG									
STAFF GAGE MU									
STAFF GAGE NB								40.60	00.0
-UEL PIER STAGE			1.30					10:00	0.0
							333	550	

# APPENDIX H RESPONSE TO REGULATORY COMMENTS

#### PROJECT REVIEW COMMENTS

Resource Conservation and Recovery Act (RCRA)
Facility Assessment Sampling Visit Report
Groups I and II SWMUs
U.S. Naval Station
Mayport Florida

#### INTRODUCTION

ABB Environmental Services, Inc, (ABB-ES) under the Comprehensive Long-term Environmental Action Navy (CLEAN) Contract, No. N62467-89-D-0317, is conducting a Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) on behalf of the U.S. Navy at Naval Station (NAVSTA) Mayport, Florida. This investigation is being conducted in accordance with the Hazardous and Solid Waste Amendment (HSWA) permit No. FL9-170-024-260, issued by the U.S. Environmental Protection Agency (USEPA) on March 25, 1988 and revised and reissued June 15, 1993.

The purpose of this document is to respond to comments made in correspondence dated June 6, 1995 and June 7, 1995, by the Florida Department of Environmental Protection (FDEP) to Department of the Navy, Southern Division Naval Facilities Engineering Command, concerning the Final Resource Conservation and Recovery Act Facility Assessment Report, Group I and II Solid Waste Management Units, U.S. Naval Station Mayport, Florida, dated April 1995. Comments by the U.S. Environmental Protection Agency (USEPA) were discussed in a NAVSTA Mayport Partnering Meeting on June 22, 1995, and are documented in the minutes for the meeting. USEPA's comments are addressed in revisions to the report. The report is organized to include:

- Section 2.0 contains responses to comments made by FDEP's Technical Review Section in correspondence dated June 6, 1995; and
- Section 3.0 contains responses to comments made by FDEP's Natural Resource Trustee in correspondence dated June 7, 1995; and
- Section 4.0 contains response to comments made by FDEP's Technical Review Section in correspondence dated August 21, 1995.

Resource Conservation and Recovery Act (RCRA)
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#### Response to FDEP Comments in Correspondence Dated June 6, 1995

There are several references to the Federal National Contingency Plan (NCP) where it is stated that "for carcinogen, a lifetime excess cancer risk in the range of 10⁴ .... to 10⁴ represents concentrations that are protective of human health." The Department has, as a goal, cleanup levels for individual carcinogens corresponding to an incremental cancer risk of 10⁴ for the most-exposed individuals. Because cancer risk from multiple agents is additive and sites rarely involve exposure to only one carcinogen, the cumulative cancer risk posed by contaminants at most sites should be considered and the above statement from the NCP is not consistent with the stated position of the State of Florida with respect to acceptable risk levels.

At the time the report was prepared, USEPA and FDEP had conflicting guidance on presentation of excess cancer risks for carcinogens. During a meeting held on May 1, 1995, FDEP provided guidance that remedial goal options (RGOs) proposed for a site should include values representing an excess lifetime risk of 10⁻⁶ for carcinogens or a hazard quotient of 1 for noncarcinogens. However, the purpose of this report is not to provide RGOs but to assess whether a RCRA Facility Investigation (RFI) is required for the site by confirming whether contamination is present at concentrations that may pose an adverse risk to human health or the environment. Therefore, target analytes detected in the media sampled (soil, sediment, surface water, groundwater) were screened against criteria that included excess lifetime risk values of 10⁻⁶ for carcinogens and hazard quotients at .1 or 1 for noncarcinogens. Excess lifetime risk values and hazard quotients for chemicals detected in individual media were summed separately for carcinogens and noncarcinogens (please refer to Appendix C).

The default assumptions used in estimating risk based bench mark concentrations may not be representative and likely overstate the specific exposure present at a site (i.e. underestimate the concentration that would result in a lifetime excess cancer risk of  $1x10^{-6}$ ). Because the chemicals were detected in only one or two media (i.e. soil and or groundwater) all of the exposure pathways used to estimate the bench mark concentrations are not relevant. Therefore, the concentrations observed at the site may exceed the bench mark values (USEPA, 1994, USEPA, 1995, and FDEP, 1995) but actually result in a lower excess cancer risk than  $1x10^{-6}$ .

Reference is made to FDEP guidance documents (McDonald, 1993; Cleanup Goals for the Military Sites in Florida, July, 1994) which have been revised. In some cases, changes are slight, but in others, new elements or compounds have been added (such as beryllium in soil and benzo(a)anthracene in sediment). Please utilize the latest guidance documents in preparing the final document as conclusions and possibly recommendations may change.

2.

1.

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Since the writing of the RFA, the State has released new guidelines for sediment quality ("Approach to the Assessment of Sediment Quality in Florida Coastal Waters", MacDonald 1994) and soil cleanup levels (Soil Cleanup Goals for Military Sites," FDEP, April 5, 1995). These guidance values are used in the final version of the RFA Sampling Visit Report for Group I and II SWMUs.

 I suggest that, during future sampling events, an additional sampling site be added to Site 49 at the discharge point for the helipad flyup rinse area as we have previously discussed.

The follow up investigation (ecological risk assessment) of SWMU 49 will include sampling at the discharge area for the helipad flyup rinse.

4. On page 4-7, Table 4-2, reference number 6 incorrectly relates Chapter 62-302 to the Florida Legislature, 1995. Please correct this error.

The citation will be updated to reference Chapter 62-302 of the Florida Administration Code (FAC) as amended in 1995.

5. Table 7-10, page 7-31 presents Water Quality Parameters for SWMU 48. This should be SWMU 28. Please correct it.

Comment acknowledged, corrections will be made to correct discrepancies between text, tables and figures.

### Response to FDEP Comments in Correspondence Dated June 7, 1995

Table 3-4 (CPCs in Surface Water Samples at SWMU 49), p. 3-11, screens constituents to Ambient Water Quality Criteria (AWQC), Florida Surface Water Quality Standards (FSWQS), and Background (BG). Where was the background sample locations? All background sampling locations for all media should be included in the text and on figures.

In an effort to reduce the redundant presentation of background information for the NAVSTA Mayport Corrective Action Program, information such as the location of background samples (surface and subsurface soil, surface water, sediment and groundwater samples) and analytical results are provided in the NAVSTA Mayport RCRA Corrective Action Program General Information Report (GIR) (ABB-ES, 1995).

2. Section 3. 5. 2, (Recommendations), p.3-33, discusses what possible action should be taken at SWMU 49; either no further action (NFA) or a monitoring program. The fact

# Resource Conservation and Recovery Act (RCRA) Facility Assessment Sampling Visit Report Groups I and II SWMUs U.S. Naval Station Mayport Florida

Effects within Ranges of Chemical Concentrations in Marine and Estuarine Sediments (Long and others, 1993). Tables and text for sediment samples collected at SWMU 50 will be amended to reflect these comparison of the analytical data to bench mark concentrations in these two references.

The selection of a background sampling location is always difficult and controversial. The purpose of a background sample is to identify chemicals that are naturally occurring and introduced through man's activities. The selection of background sampling locations at NAVSTA Mayport is particularly difficult in that almost the entire facility has been created from material dredged from Mayport Turning Basin. The collection of surface water and sediment samples from the St. Johns River and Mayport Turning Basin were conducted to provide data from a similar environment from which SWMU 50 was constructed. However, it should be noted that long and short term comparability of the analytical data may be biased because of the routine dredging of both the St. Johns River and Mayport Turning Basin, variations in water quality with tidal fluctuations, and season of the year.

#### Response to FDEP Comments in Correspondence Dated August 21, 1995

1. The term "benchmark values" is used frequently. Please insert a brief explanation of the meaning of the term.

The term "benchmark values" is used to generically refer to human health or ecological based chemical concentrations for individual chemicals that have been used in the preliminary risk evaluation of analytes detected in surface and subsurface soil, surface water and sediment, and groundwater samples. The source of the benchmark values are discussed in the findings section for each SWMU. The sources of the benchmark values are included in the reference section of this response to comments and in the Group I and II RFA report.

2. Section 4.5.2: add small mammals such as racoons, foxes etc. to this section.

The last sentence of the fourth bullet on page 4-13 will be revised to include mammals and reptiles and will be stated as follows. These areas are viable habitat for small mammals, reptiles and birds.

3. Beryllium is misspelled in Table C-3.

Comment acknowledged, the table will be amended.

4. Tables C-3, C-8 and C-9 refer to units as  $mg/\ell$ ; they should be mg/kg.

Comment acknowledged, the tables will be amended.

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- 5. The SWMU number on Table C-7 is missing.
  - Comment acknowledged, SWMU 28 will be added to the table.
- 6. The response to comments by the Natural Resource Trustee (section 2.3 and 2.4) incorrectly refer to the Technical Review Section.

Comment acknowledged, the text will be amended to indicate Natural Resource Trustee.